

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Reissue Application of

James A. SATCHELL, Jr. et al

Serial No.: 09/686,626

Filed: October 12, 2000

For: VENDING MACHINE AND COMPUTER ASSEMBLY

DECLARATION OF JAMES A. SATCHELL, JR. UNDER 37 C.F.R. §1.131

1. I, James A. Satchell, Jr., am one of the co-inventors of the above-identified application and am familiar with the application and the prosecution history thereof, including the Office Action mailed May 20, 2004;

2. I understand from paragraph 3 (on page 6 of the Office Action mailed May 20, 2004) that the Examiner has accepted the Supplemental Declaration by Dora Stroud as a showing of conception prior to the filing date of the Sokal reference applied in a rejection of the claims of the presently pending application;

3. It is also my understanding from paragraph 4 (on page 6 of the Office Action mailed May 20, 2004) that the Examiner has stated that diligence has not been shown for the time period from just prior to the filing date of October 10, 1995, of the Sokal reference to the March 19, 1996, rejection in the parent application serial number 08/429,583;

4. The Examiner has accepted diligence from the rejection of March 19, 1996, until the filing of the parent application serial number 08/715,232;

5. Accordingly, I am filing this Declaration in connection with the entire period from just prior to the filing date of October 10, 1995, of the Sokal reference to March 19, 1996, accounting for the time by either affirmative acts or acceptable excuses to overcome the Sokal patent as a reference;

6. That just prior to October 10, 1995, I was working on the concept of a vending machine, such as a drink or soda machine, that would, via the internet and the world wide web, bring the vending machine into the entertainment world.

7. At about that time, the concept of the internet with a worldwide web, e.g., websites, was just emerging and my invention was the first to propose the use of a vending machine as a doorway for the public to reach websites, via the internet, on the worldwide web.

8. As evidence of such work, I attach as **Exhibit A** to this Declaration a copy of a submission I made to the Coca Cola Company, together with an additional drawing, a copy of my parent application 08/429,583 and additional written description.

9. That immediately prior and subsequent to the date of October 10, 1995, I was resident in Tuskegee, Alabama, upon which Hurricane Opal descended, which caused an electrical black-out

in and around my residence of Tuskegee, Alabama; the power was out from Thursday, October 5th, with power being restored on Wednesday, October 18, 1995. Attached as **Exhibit B** is a copy printed by me from the internet on June 8, 2004, on the report on Hurricane Opal which made landfall on the Tuskegee area Wednesday, October 4, 1995;

10. From Friday, October 20 through Wednesday, November 8, 1995, I worked on resubmission of my application papers in the aforementioned parent patent application 08/429,583, which submission was to become the document date-stamped by the United States Patent and Trademark Office on December 26, 1995 (unless otherwise stated forth herein, every Sunday during the relevant time period was a worship day, as I am a minister in my church);

11. A declaration of my wife, Mrs. Patricia C.A. Satchell, is attached hereto confirming my preparation of the documents which subsequently became date-stamped on December 26, 1995, by the United States Patent and Trademark Office, who saw me prepare the text of these papers and assisted me by typing the documents, is submitted herein as **Exhibit C**.

12. I mailed this document to the United States Patent and Trademark Office on November 8, 1995, which subsequently received and date-stamped the document on December 26, 1995;

13. On November 1, 1995, the United States Patent and Trademark Office also mailed to me a foreign filing license (**Exhibit D**) and as evidence thereof, I executed **Exhibit E** dated

November 8, 1995, which uses the term “on-line” billboard to describe vending machine doors, as well as my *pro se* attempt at drafting patent claims on November 4, 1995 (**Exhibit F**). I continued my study of the continuing evolution of the internet on November 9-11, including study of a bill in Congress, H.R. 1506 and study on vending equipment networking.

14. In order to bring my invention into an actual reduction to practice, i.e., network vending machines via the internet, I began construction of a “host office” and further reference herein to host office means that part of the invention.

15. The next week, November 13th and 17th, I worked for eight hours on November 13th and November 17th and, additionally, received a November 9, 1995, letter (**Exhibit G**) from the Coca Cola Company in response to my September 18, 1995, letter. I spoke with Coca Cola’s patent administrator, Kathy Driscoll, which started my search interest in several sources of other alleged internet/worldwide web vending machine patents. Saturday, November 18, 1995, was a family day, as was the following week, Thursday, November 23-25, which was Thanksgiving weekend;

16. On Monday, November 20th and 21st, I worked eight hours each day at the host office and on Wednesday, November 22nd, I had fourteen hours of travel to West Palm Beach, Florida, for the aforementioned Thanksgiving weekend, which was a family-long weekend in Florida and fourteen hours travel back to my residence on Sunday, November 26, 1995.

17. On Monday, November 27, 1995, I worked eight hours at the host office and for the last three days of the month, Tuesday, November 28-Thursday, November 30, I did research on Coca Cola patents, locating U.S. Patent 4,412,292, and continued my search for other patents in connection with my invention. On Friday and Saturday, December 1st and 2nd, 1995, I worked on animation (disclosure not revealed) in connection with my invention and continued my study of H.R. 1506;

18. On Monday, December 4, 1995, through Thursday, December 7, 1995, I conducted a research and development trip to the World of Coca Cola (**Exhibit H**), return from trip and several telephone conversations with Ms. Kathy Driscoll, the patent administrator of the Coca Cola Company, several times during this week. On Friday, I worked eight hours at the host office. On Saturday, December 9, 1995, I continued work on a soda-internet island.

19. Additionally, in the time period beginning December 4th, I began a search for an attorney to assist me in the prosecution of my invention before the United States Patent and Trademark Office and continued the search each week of December 4th, December 11th, December 18th, and again December 26th, 1995. In this time frame, I talked with several attorneys in Alabama, but none was able to assist me in connection with prosecution of my application in front of the United States Patent and Trademark Office.

20. On Saturday, December 18, 1995, I worked on animation (not disclosed) and continued my research and development study of H.R. 1506.

21. During the week of December 18th to December 22nd, 1995, I designed what was later to be known as VendoNet, Inc. (the assignee of the present application) for a networking solution, including the concept of cable, satellite and phone line connections for implementing the present invention.

22. On Saturday, December 23rd, I continued work on the vending/internet entrance door for the invention.

23. Sunday, December 24th, as well as Monday, December 25th (and the following Sunday and Monday (December 31st and January 1st were worship days and national holidays).

24. From Tuesday, December 26th to Friday, December 29th, 1995, I continued working on VendoNet's networking solution, including work on animation (disclosure secret) in connection with the invention.

25. Additionally, for two hours on each of those days, I worked at the host office building and continued my study of the changing internet as reported in the article Mix Plus (**Exhibit I**).

26. On Saturday, December 30th, I studied the following hardware in connection with implementing the invention:

- (A) cable;
- (B) satellites; and

38. During the last four days of February (26th - 29th), 1996, I continued research and development on an article from PC/Computing (online service versus the web), as well as working two hours each day on the host local office site.

39. On Friday, March 1, 1996, I concluded my research and development of online services/internet, which is different than internet/worldwide web and on Saturday, March 2, 1996, made a change to my drawing (**Exhibit L**).

40. On Monday, March 4th, I worked two hours on graphics in connection with the proposed company name, logos and slogans.

41. On Tuesday, March 5 through Friday, March 8th, 1996, I continued work on selector buttons that could be pressed by customer to view, pay, to buy product, manufactured directly by me as well as spending two hours each day working on the host office and eight hours on Saturday, March 9, 1996, working on the host office.

42. During the week of March 11th - 15th, I worked two hours each day working on the host office, as well as continuing my search for more Coke patents and on Saturday, March 16th, continued research on H.R. 1506.

43. Lastly, on March 18th, 1996, I spent two hours working on the host office, as well as sketchbook drawings which is attached as **Exhibit M**.

44. The foregoing outlines my diligence for the entire period between October 10, 1995 to March 19, 1996, in connection with the continued development of my invention in order to bring it to an actual or constructive reduction to practice.

Further, declarant sayeth not.

I, as undersigned co-inventor, further declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the reissue application or of any reissue patent to issue thereon.

08/10/04
Date

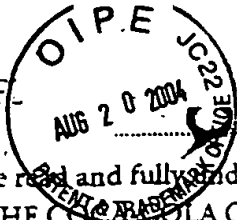
James A. Satchell, Jr.
James A. Satchell, Jr.

Residence: Tuskegee, Alabama

Citizenship: United States

Post Office Address: 1490 County Road 36, Tuskegee, Alabama 36083

EXHIBIT A



I, the undersigned, have read and fully understand the POLICY FOR SUBMISSION OF IDEAS AND SUGGESTIONS BY PERSONS OUTSIDE THE COCA-COLA COMPANY.

I agree to each of the Terms and Conditions identified on the reverse side of this Agreement. I understand and agree that, unless a formal written contract is subsequently entered into between me and the Company, no obligation of any kind is assumed by, nor may be implied against, the Company in connection with my submission or any additional materials which I may submit in connection with my submission, and then the only obligation assumed shall be that expressly stated in such subsequent contract.

I further understand and agree that my submission is voluntarily made, and no relationship of trust or confidence exists between me and the Company, nor is such relationship created or implied in connection with my submission.

I do not, by this Agreement or my submission, grant to the Company any rights under any patents, trademarks or copyrights I now have or may later obtain in connection with the submission. Of course, if my submission bears the Company's trademarks or utilizes the Company's other intellectual property, such as copyrights or patents, I understand that I cannot manufacture, sell or distribute these items without explicit written authorization from the Company to do so.

In consideration of the Company evaluating my idea, I hereby release the Company and its officers, directors, and employees, from any liability for its use, if any, except such liability as may arise under patent, trademark or copyright law, or under the law governing a subsequent written contract as herein provided.

In accordance with the Company's Policy, I herewith submit, for the Company's consideration, the following idea or suggestion which I have originated and which I represent is new, and which I have a legal right to submit to the Company.

Idea or Suggestion Submission: LET'S SURPRISE THE WORLD,
COULD YOU IMAGINE THE FACES OF PEOPLE WHEN
THEY ARRIVE AT AIRPORTS, BUS-STATIONS ETC. BEING
WELCOMED TO THE 96' OLYMPIC GAMES BY A "LASER-DISC MUSIC
VIDEO DIGITAL DRINK MACHINE DOOR" PEOPLE STOPPING!!! LOOKING!!! BUYING
AS A MACHINE WITH MOTION PICTURES & STEREO SOUND ENTERTAIN THEM
WITH GAME SITE LOCATIONS, NEWS, MUSICAL VIDEOS, SODA
COMMERCIALS, AND A CHANCE TO BE SEEN ON T.V., AN OPTIONAL
REPLACEMENT DOOR FOR VENDOR-OWNERS CAN SHARE THIS FUN FOR A
(ATTACHED SHEETS) Please attach additional sheets of descriptive matter if necessary.)

Date: 9/18/95

Signature: James A. Satchell Jr.
 Print Name: JAMES A. SATCHELL JR.
 Address: 1490 COUNTY RD 36
TUSKEGEE AL. 36083

Witness #1 Signature: Mrs. Patricia Satchell
 Print Name: Patricia Satchell
 Address: 1490 County Rd 36
Tuskegee, AL 36083

Witness #2 Signature: Kwanis L. Satchell
 Print Name: KWANIS L. SATCHELL
 Address: 1007 Seimain, Tuskegee, AL
36083

RETURN THIS FORM TO:

The Coca-Cola Company
 Senior Patent and Technology Counsel
 Patent and Technology Law Department
 P.O. Drawer 1734
 Atlanta, Georgia 30301

A G R E E M E N T

I, the undersigned, have read and fully understand the POLICY FOR SUBMISSION OF IDEAS AND SUGGESTIONS BY PERSONS OUTSIDE THE COCA-COLA COMPANY.

I agree to each of the Terms and Conditions identified on the reverse side of this Agreement. I understand and agree that, unless a formal written contract is subsequently entered into between me and the Company, no obligation of any kind is assumed by, nor may be implied against, the Company in connection with my submission or any additional materials which I may submit in connection with my submission, and then the only obligation assumed shall be that expressly stated in such subsequent contract.

I further understand and agree that my submission is voluntarily made, and no relationship of trust or confidence exists between me and the Company, nor is such relationship created or implied in connection with my submission.

I do not, by this Agreement or my submission, grant to the Company any rights under any patents, trademarks or copyrights I now have or may later obtain in connection with the submission. Of course, if my submission bears the Company's trademarks or utilizes the Company's other intellectual property, such as copyrights or patents, I understand that I cannot manufacture, sell or distribute these items without explicit written authorization from the Company to do so.

In consideration of the Company evaluating my idea, I hereby release the Company and its officers, directors, and employees, from any liability for its use, if any, except such liability as may arise under patent, trademark or copyright law, or under the law governing a subsequent written contract as herein provided.

In accordance with the Company's Policy, I herewith submit, for the Company's consideration, the following idea or suggestion which I have originated and which I represent is new, and which I have a legal right to submit to the Company.

Idea or Suggestion Submission: _____

(Please attach additional sheets of descriptive matter if necessary.)

Date: _____ Signature: _____
Print Name: _____
Address: _____

Witness #1 Signature: _____	Witness #2 Signature: _____
Print Name: _____	Print Name: _____
Address: _____	Address: _____

R E T U R N T H I S F O R M T O :

The Coca-Cola Company
Senior Patent and Technology Counsel
Patent and Technology Law Department
P.O. Drawer 1734
Atlanta, Georgia 30301

By signing a copy of this Agreement on the reverse side, the submitter agrees to the following Terms and Conditions.

1. Patent, Trademark and Copyright Protection

The Company has no desire to appropriate unfairly the unprotected ideas or suggestions of others. Therefore, the Company prefers to consider ideas already protected by the submitter by a Patent, Patent application, a Trademark Registration, or a Copyright Registration, as may be applicable. If the submitter represents that applications or registrations for patents, trademarks or copyrights exist or have been filed, the submitter should attach a list of all such applications and registrations including the serial number, the date of application or registration, the date of publication, and a copy of the certificate of issuance, if applicable. The submitter understands and agrees that the Company retains the full right to contest the validity or infringement or violation of any patent, trademark or copyright relating to any submission, it being the intention herein that the submitter's sole remedy shall be that provided under applicable patent, trademark and copyright laws. The submitter should also understand that disclosure of an inventive part of the idea or suggestion without an obligation of confidentiality, as is the case here, before filing a patent application, may destroy patent rights in many countries.

If the submitter chooses to submit an idea that is unprotected by a Patent, Patent application, Trademark Registration, or a Copyright Registration, the submitter understands and agrees that, if it should be alleged that despite the Terms and Conditions identified in this Agreement, the Company has incurred any liability with respect to the submission, the submitter will in no event assert a claim in excess of \$2,000.00 to cover all damages alleged to have been sustained.

The submitter further understands and agrees that consideration by the Company of the idea or suggestion shall in no way be deemed an admission on the part of the Company that the idea or suggestion is novel, useful or original with the submitter. The submitter further understands and agrees that the Company shall have full and sole authority to determine whether and to what extent the submission is commercially valuable to the Company.

2. No Confidentiality or Secrecy

The submitter understands and agrees that no submitted idea or suggestion is accepted with a reservation or condition which implies that the submission is made in confidence. The Company cannot agree to hold a submission in confidence or as a trade secret. The submitter also understands and agrees that no confidential relationship exists or is established between the submitter and the Company, and the Company is free to disclose or use the submission as it deems fit.

3. No Obligation to Consider Submission

While the Company attempts to respond to all submissions in due course, the submitter understands and agrees that the Company is under no obligation to give the submitted material any consideration and will give the submission only such consideration as the Company deems appropriate. The Company is under no obligation to reveal the degree of consideration it may have given the material, or to state any reason for rejection, or to return any material to the submitter.

4. Compensation

The submitter understands and agrees that this Agreement contemplates no promise to pay submitter any money and that no agreement to compensate the submitter is to be implied from the Company's consideration of the submission or from failure of the Company to respond after such submission is made. If the Company determines that any particular idea or suggestion submitted is of interest, the Company may, in its sole discretion, enter into negotiations with the submitter to arrive at a mutually satisfactory basis for compensation for the submitted idea or suggestion, and for such rights, if any, as may pertain to its use. The submitter understands and agrees, however, that the Company is not obligated to pay any compensation whatsoever, absent a written contract for the use of any idea or suggestion. If no written agreement for the use of the idea or suggestion is entered into, and the submitter believes the Company has unfairly adopted the idea or suggestion, the submitter understands and agrees that the sole remedy shall be an action under applicable patent, trademark or copyright laws.

5. Entire Agreement

This Agreement represents the entire understanding between the parties; that is to say, any and all prior negotiations or agreements by any agent or representative of the Company are merged into this Agreement, and no such prior representation, negotiation or agreement shall be binding on the Company or have any force or effect. It is fully understood this Agreement may not be modified, changed, or waived except in a written document duly executed by a Senior Officer of the Company.

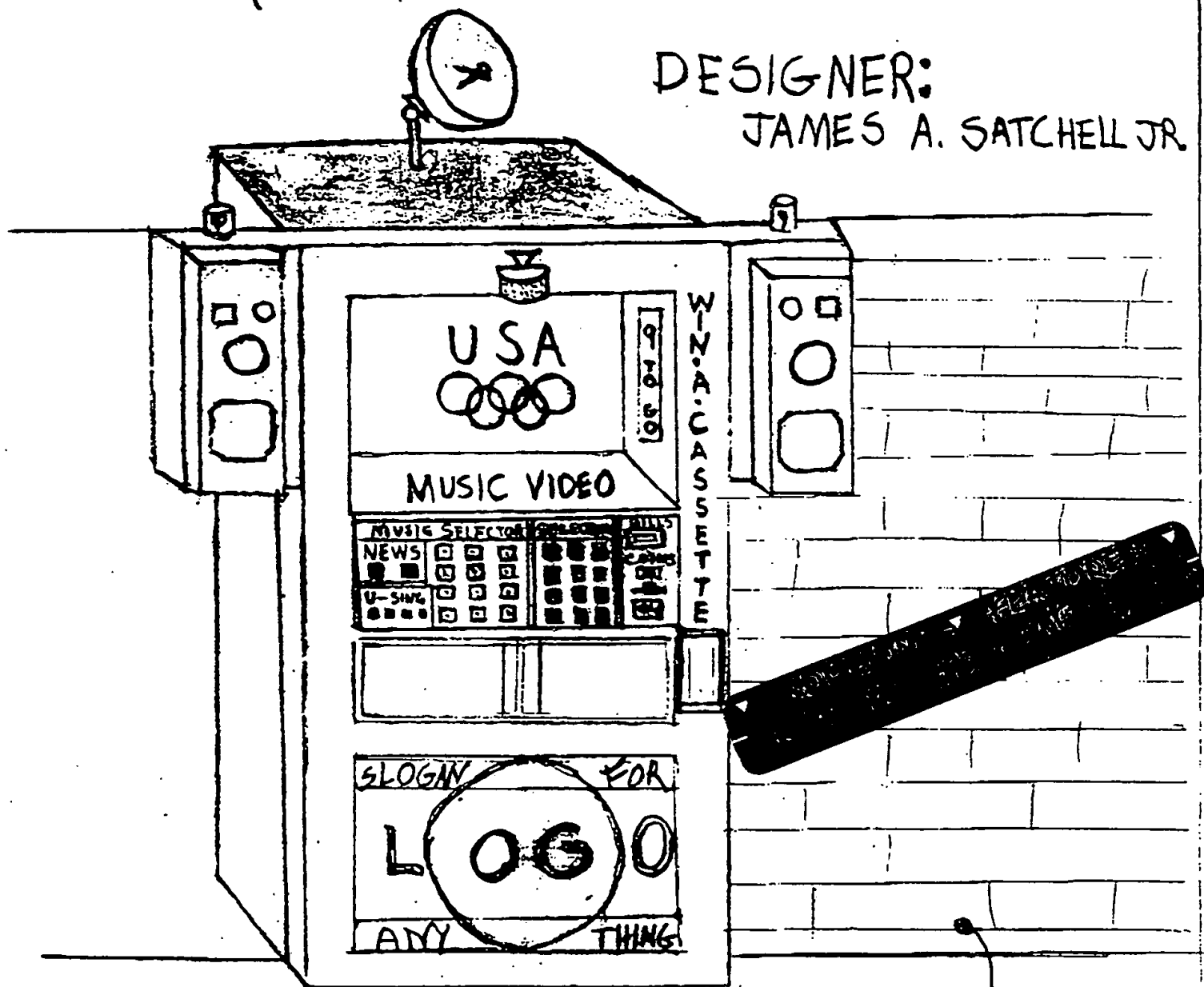
Applicable Law

This Agreement shall be deemed to have been made and shall be governed by the laws of the State of Georgia, U.S.A., except for patents, trademarks and copyrights, which shall be governed by and under the applicable patent, trademark and copyright laws.

LASER-DISC MUSIC VIDEO DIGITAL (DRINK MACHINE DOOR)

DESIGNER:

JAMES A. SATCHEL JR.



ISOMETRIC DRAWING

DOOR MOUNTED ON
WALL (EXTERIOR)
WITH DIFFERENT TYPE
COOLING/ HOUSING SYSTEM

Design Proposal for Packaging/Entertainment

To: The Coca-Cola Company, P.O. Draw 1734 Atlanta Ga. 30301
Senior Patent and Technology Counsel Patent and Technology Law Department

This Design Entitled; Laser-Disc Music Video Digital Drink Machine Door, is the Futuristic Drink Machine Door, that will soon revolutionize the purchase of your soda products at these informational, entertainment, Customer auditioning post. These Doors are designed Several ways; 1) as a replacement Door for existing Machines. 2) Mounted wall unit for eating areas (Interior Usage) 3) As a Drive-Thru

wall unit, this Door is mounted on the exterior of an existing building, with the Soda cooler, brain components, money box etc. safely stored inside a building. Soda-Island, a building designed for Parking Lots. This Storage/Drive-Thru allows Customers to remain in their cars, while purchasing a soda.

Laser-Disc Music Video Digital Drink Machine Doors on both sides entertain/serve customers while storage for video/audio components, Monies etc. are safely stored inside the building.

We hope that your company will be the first to introduce this new concept of Service/Entertainment to the general public, in the upcoming '96 Olympic Games. Let's surprise the World in Atlanta, with your product and this design. If you are interested in this design;
Laser-Disc Music Video Digital Drink Machine Door
Patent-pending Application Number 08/429583
Preliminary Class: 221 * SMALL ENTITY *
Filing Date: 08/17/95

Contact: James A. Satchell Jr.
1490 County Rd. 36
Tuskegee Al. 36083

Phone: 334-724-9020

CONTINUED WORK
PRESENTED TO COKE

(CORRECTED COPY)
REVEAL TO USPTO/MRS. STROD
PUT ON PAPER TO CORRECTION

(CORRECTED COPY)

Page #6

Laser-Disc Music Video Door (Drink Machine Door)
Claims

What I claim as my invention is: Something that will interconnect the Soda-Machine into the Entertainment World. Other existing Drink Machine illuminated facades will surely step aside to customer entertainment; Live News Events, Pre-recorded Music Videos, Live auditions for T.V. Commercials. All possible by a purchase of a soda. I claim these features combined with my design on The Laser-Disc Music Video Drink Machine Door, Door designed with;

- 1) Video Screen 2) Speakers for Stereo sound
- 3) Satellite Receiver antenna 4) Camera
- 5) Video Record-Playback 6) ~~Intercom~~
- 7) Motion Detectors 8) Multi-Selection Panels 9) ~~Digital~~ Counters INTERNET CONNECTIONS.

I James A. Batchelor Jr., claim this combination Entertainment package design as a replacement door for existing soda machines. On this day 05/26/95.

1st COPY MAILED 05/26/95

2nd COPY

SENT BY FAX 8/17/95

CUT OFF
OF
NEEDED

NOTE: I MAILED THIS CLAIM ON

05/26/95 BACK TO THE U.S.D. OF C,
PATENT & TRADEMARK. YOU SAY IT'S NOT THERE.
PLEASE PLACE THIS ONE PROPERLY.

EXHIBIT B

[HOME](#)[ARCHIVES](#)[FORECASTS](#)[IMAGERY](#)[ABOUT TPC](#)[RECONNAISSANCE](#)

Preliminary Report **Hurricane Opal** **27 September - 5 October 1995**

Max Mayfield
National Hurricane Center
29 November 1995

PRELIMINARY REPORTS

[Hurricane Allison](#)
[Tropical Storm Barry](#)
[Tropical Storm Chantal](#)
[Tropical Storm Dean](#)
[Hurricane Erin](#)
[Tropical Depression
Six](#)
[Hurricane Felix](#)
[Tropical Storm
Gabrielle](#)
[Hurricane Humberto](#)
[Hurricane Iris](#)
[Tropical Storm Jerry](#)
[Tropical Storm Karen](#)
[Hurricane Luis](#)
[Tropical Depression
Fourteen](#)
[Hurricane Marilyn](#)
[Hurricane Noel](#)
[Hurricane Opal](#)
[Tropical Storm Pablo](#)
[Hurricane Roxanne](#)
[Tropical Storm
Sebastien](#)
[Hurricane Tanya](#)

Hurricane Opal made landfall near Pensacola Beach, Florida as a marginal Category 3 hurricane on the Saffir/Simpson Hurricane Scale, causing extensive storm surge damage to the immediate coastal areas of the Florida panhandle. It was the first major hurricane to strike the Florida panhandle since Eloise in 1975 (103K GIF).

a. Synoptic History

Satellite imagery and synoptic analyses indicate that Opal originated from a tropical wave that emerged from the west coast Africa on 11 September. The wave moved westward across the Atlantic into the western Caribbean Sea by 23 September and merged with a broad area of low pressure centered in the vicinity of 15°N 80°W. The combined system drifted west-northwestward toward the Yucatan peninsula over the following few days without significant development. Deep convection increased near the center of the low and the post-analysis "best track" in Figure 1 (108K GIF) shows that a tropical depression formed about 70 n mi south-southeast of Cozumel, Mexico at 1800 UTC 27 September. Best track position, central pressure and maximum one-minute sustained wind speed are listed for every 6 hours in Table 1.

Steering currents were weak and the tropical depression moved slowly over the Yucatan peninsula for the following three days. Convective banding increased and ship reports suggest that the depression became Tropical Storm Opal at 1200 UTC 30 September while centered near the north-central coast of the Yucatan peninsula.





The storm gradually strengthened and moved slowly westward into the Bay of Campeche.

Air Force Reserve unit aircraft investigating Opal over the southwestern Gulf of Mexico reported that the minimum central pressure steadily dropped. Aircraft reports and satellite estimates suggest that Opal strengthened into a hurricane near 1200 UTC 3 October while centered about 150 n mi west of Merida, Mexico. A banding type eye appeared in satellite imagery later in the day while a large amplitude mid- to upper-level trough moving into the central United States began turning Opal slowly toward the north.

On 3 and 4 October, the hurricane turned toward the north-northeast to northeast and gradually accelerated. During this period, the water temperature beneath the hurricane's circulation was near 28–29°C, and a large upper-level anticyclone was well established over the Gulf of Mexico. Rapid intensification occurred not only as a result of these favorable environmental conditions on the large scale but, and perhaps more importantly, due to significant changes on a smaller scale within the hurricane's inner core. Opal intensified into a category 4 hurricane on the Saffir/Simpson Hurricane Scale early on 4 October at which time reconnaissance aircraft reported a small, 10 n mi diameter eye. The minimum central pressure of 916 mb, with maximum sustained surface winds estimated at 130 knots, occurred when the hurricane was centered about 250 n mi south-southwest of Pensacola, Florida near 1000 UTC 4 October. The peak intensity appears to have occurred near the end of an eyewall contraction cycle. Soon thereafter the small inner eyewall diminished as an outer eyewall became more dominant. The hurricane weakened during this process, but was still a marginal Category 3 hurricane as the center made landfall at Pensacola Beach, Florida near 2200 UTC 4 October. The collapse of the inner eyewall, reduced sea surface temperatures along the Gulf coast and increased upper-level westerlies likely contributed to the weakening.

The hurricane was moving north-northeastward near 20 knots at landfall with the sustained hurricane force winds in the eastern quadrants of the circulation primarily between Pensacola Beach and Cape San Blas. ***The minimum central pressure at landfall was 916 mb. Maximum sustained surface winds are currently estimated at 100 knots in a narrow swath at the coast near the extreme eastern tip of Choctawhatchee Bay about midway between Destin and Panama City.*** Although no official reports of surface winds were received within this area, data from reconnaissance aircraft and Doppler radar suggest that the peak winds occurred in this location. It should be emphasized that the strongest winds were in a very limited area and most of the coastal areas of the Florida panhandle experienced winds of a Category 1 or Category 2 hurricane (between 65 and 95 knots). Although the winds were diminishing at the time of landfall, extensive damage due to storm surge and breaking waves occurred over most of the coastal areas of the Florida panhandle.

Opal weakened rapidly after moving inland, becoming tropical storm over southern Alabama and a tropical depression over southeastern Tennessee. The cyclone was declared extratropical on the best track as it moved northeastward over the Ohio Valley and eastern Great Lakes into southwestern Quebec. The strongest winds occurred well away from the center of the cyclone during the extratropical stage.

b. Meteorological Statistics

Figure 2 (44K GIF) and Figure 3 (51K GIF) show the curves of minimum central pressure and maximum one-minute wind speed respectively, versus time, along with the observations on which they are based.

U.S. Air Force Reserve aircraft provided a total of 3 operational center fixes during approximately 122 flying hours of reconnaissance on this hurricane. The minimum central pressure reported by aircraft was 916 mb at 0945 UTC 4 October. This represented a 53 mb drop in pressure within 24 hours and a 42 mb fall within about 12 hours. This was a very rapid rate of deepening, but it was not unprecedented. Several western North Pacific typhoons have deepened at an even faster rate. The maximum winds of 152 knots from a flight-level of 700 mb were measured shortly after the 916 mb pressure report. At 2006 UTC, approximately two hours prior to landfall, the aircraft reported 126 knots 59 n mi east of the center. At 2203 UTC, near the time of landfall, the aircraft reported 115 knots 59 n mi east of the center. In addition to the Air Force Reserve reconnaissance, a NOAA aircraft flew a 10 hour research mission at the time of landfall.

A ship with call sign XCKX reported 75 knot winds at 1200 UTC 4 October while located about 90 n mi west-southwest of the hurricane center. Several other ship reports were helpful in defining the extent of tropical storm force winds. Table 2 lists ship reports of at least tropical storm force winds in the vicinity of Opal.

The strongest winds reported by a land station were 73 knots with gusts to 125 knots from Hurlbert Field, Florida. Table 3a lists selected surface observations, and Table 3b lists selected observations made by NOAA's National Data Buoy Center (NDBC) platforms near the path of Opal.

Isolated tornadoes were reported from the Florida panhandle to the mid-Atlantic states. One fatality occurred in Crestview, Florida as a result of a tornado. Another tornado injured several people and severely damaged a number of structures as it swept through Charles Prince Georges and Anne Arundel Counties in Maryland.

At the time of this report a post-storm high water mark survey was being conducted by the U.S. Army Corps of Engineers and the U.S. Geological Survey. Many high water marks remain to be surveyed and "tied into" bench marks. The locations of the maximum values cannot be finalized until the survey is complete. However, initial survey results show an extensive storm surge from southeastern Mobile Bay and Gulf Shores, Alabama, eastward through the Florida panhandle to Cedar Key, Florida. Still water mark elevations inside of buildings and tide gage maximums, which damp out breaking wave effects and are indicative of the storm surge, ranged from 5 to 14 feet above mean sea level. Outside water marks on buildings or debris lines on sand dunes within 200 feet of the Gulf of Mexico shoreline generally ranged from 10 to 21 feet. For example, the tide gage at the Panama City Beach pier recorded a maximum of approximately 8.3 feet above mean sea level, indicative of storm surge. At the end of the pier a debris line elevation of approximately 18 feet above mean sea level was recorded. Thus, the breaking waves on top of the storm surge added approximately 10 feet. Many structures in this combined storm surge and breaking wave zone that were not elevated high enough suffered major structural damage.

The combination of Opal and a frontal system resulted in heavy rains along the path of the hurricane. Rainfall totals generally ranged from 5 to 10 inches over portions of the Florida panhandle, Alabama and Georgia. Rains in South Carolina averaged 2 to 4 inches while in North Carolina 3 to 5 inches were common. Highlands, North Carolina recorded 8.95 inches and Robinson Creek, North Carolina recorded 9.89 inches. Elsewhere, 1 to 3 inch totals occurred over portions of the northeast U.S. from Maryland northward. These rains have been described as beneficial to areas of the northeast U.S. that had been experiencing a prolonged dry period.

c. Casualty and Damage Statistics

The total number of deaths directly associated with Opal is currently set at 59, and were distributed as follows:

- Guatemala - 31 (from flooding during the developing stages of Opal)
- Mexico - 19 (from flooding)
- U.S. - 9 including
 - Florida (1 from a tornado)
 - Alabama (2 from a tree falling on a mobile home)
 - Georgia (5 from falling trees)
 - North Carolina (1 from a tree falling on a mobile home)

There were no reported deaths due to storm surge flooding which is remarkable in view of the vulnerable population and extensive salt water damage observed.

The Property Claim Services Division of the American Insurance Services Group preliminary estimate of insured proper damage for the United States is \$2.1 billion. Considerable uncertainty exists concerning the amount of additional damage due to flood claim uninsured property damage (including damage to roads and bridge and other government property) and the cost of cleanup. If the estimate of insured property damage proves to be correct, the total damage estimate from Hurricane Opal could reach \$3 billion. Without adjustments for inflation, Opal could rank as high as third on the list of costliest twentieth-century U.S. hurricanes. With adjustments for inflation, Opal will likely still be ranked in the top ten on that list.

Most of the severe structural damage occurred at the coastline. The crumbled piers, demolished homes and eroded and submerged highways were primarily a result of the storm surge. In addition, however, strong winds spread damage well inland. Opal downed numerous trees, knocking out power to nearly 2 million people in Florida, Alabama, Georgia and the Carolinas. The Robert Trent Golf Course in Opelika, Alabama lost over 7000 trees during the storm. Many people in Florida were without water for several days.

d. Forecast and Warning Critique

During the time when Opal was of tropical storm or hurricane strength, the mean official track forecast errors of 42 (18 cases), 101 (16 cases), 161 (14 cases), 231 (12 cases) and 326 (8 cases) n mi at 12, 24, 36, 48 and 72 hours respectively were slightly larger than the long-term averages from the previous ten years.

The intensity forecasts showed a negative bias (i.e., intensity was underestimated). The trend for the strengthening of Opal while over water was correctly forecast by the NHC, but the amount of rapid deepening was not anticipated by the official forecasts or by any available objective intensity prediction techniques.

Table 4 lists the coastal watches and warnings issued during Hurricane Opal. Approximately 31 hours elapsed between the time a hurricane watch was issued and the time of landfall on the Florida panhandle. Approximately 19 hours elapsed between the time of issuance of a hurricane warning was issued and the time of landfall.

Table 1. Preliminary best track, Hurricane Opal, 27 September - 6 October 1995.

	Position			
--	----------	--	--	--

Date/Time (UTC)	Lat. (° N)	Lon. (° W)	Pressure (mb)	Wind Speed (kt)	Stage
1800	19.1	87.3	1004	25	Trop. Depression
28/0000	19.4	87.5	1004	25	" "
0600	19.4	87.9	1004	25	" "
1200	19.3	88.2	1003	25	" "
1800	19.3	88.4	1003	25	" "
29/0000	19.4	88.4	1003	25	" "
0600	19.5	88.4	1003	25	" "
1200	19.6	88.3	1003	25	" "
1800	19.8	88.2	1003	30	" "
30/0000	20.1	88.2	1002	30	" "
0600	20.6	88.3	1002	30	" "
1200	21.1	88.5	1001	35	Tropical Storm
1800	21.4	89.1	1000	40	" "
01/0000	21.3	89.9	994	45	" "
0600	21.1	90.7	987	45	" "
1200	20.9	91.2	986	45	" "
1800	20.8	91.6	985	50	" "
02/0000	20.7	91.9	984	55	" "
0600	20.8	92.1	980	60	" "
1200	21.0	92.3	973	65	Hurricane
1800	21.2	92.3	972	65	"
03/0000	21.7	92.2	970	70	"
0600	22.2	92.0	969	75	"
1200	22.8	91.6	968	80	"
1800	23.5	91.0	965	85	"
04/0000	24.5	90.1	953	100	"
0600	25.9	89.4	935	110	"
1200	27.3	88.5	919	130	"
1800	29.0	87.7	938	110	"
05/0000	31.0	86.8	950	80	"
0600	33.2	86.2	974	50	Tropical Storm
1200	35.4	85.7	982	30	Trop. Depression
1800	38.5	83.5	986	40	Extratropical
06/0000	40.5	82.3	989	40	"
0600	42.0	80.5	991	40	"
1200	43.3	78.4	997	35	"
1800	44.5	76.5	1002	30	"
04/1000	26.6	88.8	916	130	Minimum

					Pressure
Landfall:					
Pensacola Beach, Florida					
04/2200	30.3	87.1	942	100	Hurricane

Table 2. Ship encounters of 34 knots or higher associated with Hurricane Opal.

Ship Call Sign	Date Mo/Da	Time UTC	Position		Wind (kt) Dir/Speed	Pressu (mb)
			Lat°N	Lon°W		
C6CM7	9/29	0000	22.6	85.0	120/35	1006.4
KAFG	9/30	1800	20.9	85.0	140/38	1005.7
C6JN	10/01	1800	21.9	94.7	340/34	1003.3
C6JN	10/02	0600	19.2	94.5	290/40	1000.8
3EWJ9	10/03	1200	20.6	86.5	140/58	1007.0
C6KE8	10/03	1800	27.6	94.4	010/34	1003.0
WBVY	10/04	0000	27.5	91.4	030/38	997.3
C6KJ5	10/04	0600	23.1	86.6	160/37	997.5
XCKX	10/04	0600	27.2	88.8	110/48	991.0
ELIU2	10/04	1200	24.7	84.3	160/40	-
SHIP	10/04	1200	26.8	84.7	170/46	997.2
XCKX	10/04	1200	26.8	90.1	340/75	984.0
KGBE	10/04	1200	27.6	86.0	140/48	993.0
VSZ5	10/04	1200	28.4	88.8	080/55	983.5
ELIU2	10/04	1800	24.4	84.5	170/40	1008.5
XCKX	10/04	1800	26.7	90.3	290/40	997.0
KGBE	10/04	1800	27.4	85.6	210/52	994.6
VSZ5	10/04	1800	27.5	89.3	310/47	988.0

Table 3a. Hurricane Opal selected surface observations, October 199

	Minimum sea-level pressure	Maximum surface wind speed (knots)	Storm Surge (tide)	F
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Location	Pressure (mb)	Date/Time (UTC)	Sustained	Peak Gust	Date/Time (UTC) *	height above normal (ft)	(s
Louisiana:							
New Orleans (MSY)	990.9	04/1953	23	30	04/2150		
New Orleans (NEW)	991.2	04/1951	30	41	04/2352		
Mid Lake Ponchartrain Causeway			32	39	04/2320		
Mississippi:							
Gulfport (GPT)	985.4	04/1947	30	38	04/2147		
Keesler AFB (BIX)	984.5	04/2125	35 **	55 **	04/1956		
Meridian (MEI)	991.6	05/0303	24	34	04/2335		
Alabama:							
Evergreen	980.0	04/2119	30	43	04/2115		
Mobile (MOB)	978.5	04/2250	33	51	04/2339		
Downtown Mobile			45	57	04/2100		
Ft. Rucker (OZR)	978.4	05/0059	65 **	85 **	05/0024		
Maxwell AFB (MXF)	974.1	05/0355	41	78	05/0327		
Montgomery (MGM)	969.4	05/0256	41	55	05/0245		
Auburn (AUB)	980.0	05/0400	24	45	05/0300		
Birmingham (BHM)	976.7	05/0655	27	42	05/0453		
Anniston (ANB)	989.0	05/0631	25	35	05/0335		
Huntsville (HSV)	982.4	05/0856	37	48	05/0627		
Florida:							
Pensacola I-10 & East Bay	948.2	04/2302	43	63	04/2247		
Pensacola Airport (FAA)			54	62	04/2041		
Pensacola (PNS)				69	04/1930		

Pensacola (NPA)	955.0	04/2225	52	67	04/2043		
Ellyson (near (PNS))							1
Hurlburt Field (HRT)	960.3	04/2255	73	125	04/2155		
Fort Walton Beach	960.3	04/2229					
Eglin AFB (VPS)	966.5**	04/2155	70 **	100 **	04/2304		
Panama City (PAM)	977.7	04/2206	55	74	04/2252		
Apalachicola (AQQ)	991.2	04/2120	28	51	04/2206	5-6	
St. George Island Causeway				62	04/2149		
Tallahassee (TLH)	993.9	04/2225	28	45	05/0250		
Tallahassee (FSU Weather Station)	995.0	04/2216		55	04/2226		
Turkey Point (TUPF)			36	61	04/2047		
Brooksville (BKV)	1001.6	04/2106	20	28	04/2115		
New Port Richey	1003.5	04/2116	24	31	05/0445		
Tampa (TPA)	1002.1	04/2050	21	39	04/1652		
St. Petersburg (PIE)	1001.6	04/2000	25	38	04/1948		
Sarasota	1002.3	04/1848	27	36	04/1648	2-4	
Winter Haven	1003.5	04/2103	29	36	04/2341		

Georgia:

Fort Benning (LSF)	984.5 **	05/0656	40 **	50 **	05/0555		
Warner Robbins AFB (WRB)	994.3	05/0656	29	44	05/0555		
Atlanta (ATL)	987.5	05/0731	27	43	05/0556		
Dobbins AFB (MGE)	987.0	05/0755	37**	60**	05/0608		
Marietta			23	60	05/0734		
Fulton Co. (FTY)							
Peach Tree							

City (FSC)						
------------	--	--	--	--	--	--

* Time of sustained wind speed unless only gust is given.

** Estimated.

Table 3b. Hurricane Opal selected NDBC observations, October 1995

		Minimum sea-level pressure		Maximum wind speed (knots)		
Platform	Location	Pressure (mb)	Date/time (UTC)	average *	Peak gust	Date/time (UTC)
Grand Isle, LA C-MAN GDIL1	29.3°N 90.0°W	990.0	04/1900	40	52	04/1400
Southwest Pass, LA C-MAN BURL1	28.9°N 89.4°W	985.4	04/1700	64	75	04/1700
Dauphin Island, AL C-MAN DPIA1	30.2°N 88.1°W	970.0	04/2126	53	67	04/2150
Keaton Beach, FL C-MAN KTNF1	29.8°N 83.6°W	998.0	04/2000	30	47	04/2100
Cedar Key, FL C-MAN CDRF1	29.1°N 83.0°W	1000.2	04/2100	32	46	04/2300
Buoy 42001	25.9°N 89.7°W	963.7	04/0600	53	66	04/1000
Buoy 42003	25.9°N 85.9°W	992.8	04/1200	43	54	04/0900
Buoy 42007	30.1°N 88.8°W	979.5	04/2100	52	68	04/1900
Buoy 42036	28.5°N 84.5°W	995.4	04/2100	35	43	04/1800

* NOAA buoys report an 8-minute average wind and C-MAN stations report a 2-minute average wind.

Table 4. Watch and warning summary, Hurricane Opal.

Date/Time (UTC)	Action	Location
30/1500	Tropical Storm Warning	Northeast portion of the Yucatan Peninsula from Cozumel and Cancun to Progreso
01/0300	Tropical Storm Warning extended	Yucatan Peninsula from Progreso to Celestun
01/2100	Tropical Storm Warning extended	Yucatan Peninsula from Progreso to Veracruz
	Tropical Storm Warning discontinued	Yucatan Peninsula east of Progreso
03/0900	Hurricane Watch	Morgan City, Louisiana to just west of Pensacola, Florida
03/1500	Hurricane Watch extended	Pensacola to the Mouth of the Suwannee River, Florida
	Tropical Storm Warning discontinued	All portions of the Yucatan Peninsula
03/2100	Tropical Storm Warning	Morgan City, Louisiana to the Mouth of the Suwannee River, Florida
04/0300	Hurricane Warning	Mobile, Alabama to Anclote Key, Florida
	Tropical Storm Warning extended	South of Anclote Key to Venice, Florida
	Tropical Storm Warning and Hurricane Watch discontinued	West of Grand Isle to Morgan City, Louisiana
04/0900	Hurricane Warning extended	Mobile, Alabama westward to the Mouth of the Mississippi River including coastal Mississippi
	Tropical Storm Warning and Hurricane Watch extended	Grand Isle, Louisiana westward to just east of Morgan City, Louisiana including Metropolitan New Orleans
05/0300	Tropical Storm Warning, Hurricane Warning, and Hurricane Watch discontinued	West of Mobile, Alabama
05/0500	All remaining coastal Watches and Warnings discontinued	

Brian MaherJack Beven

Last updated January 9, 1999

EXHIBIT C

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Reissue Application of

James A. SATCHELL, Jr. et al

Serial No.: 09/686,626

Filed: October 12, 2000

For: VENDING MACHINE AND COMPUTER ASSEMBLY

RULE 131 DECLARATION FOR PATRICIA C.A. SATCHELL

My name is Patricia C.A. Satchell and am over the age of twenty-one years and if called to testify would be competent to testify as to the following:

1. That based on personal knowledge and/or experience, I make the following declaration that I am the wife of James A. Satchell, Jr., one of the co-inventors of the above-identified application;

2. That based on personal observation, I saw James A. Satchell, Jr. prepare the documents which were to become those documents subsequently date-stamped by the United States Patent and Trademark Office on December 26, 1995;

3. That I have a clear recollection of James A. Satchell, Jr. asking me to type those documents. I typed and/or otherwise prepared those documents which were to become the December 26, 1995, date-stamped by the United States Patent and Trademark Office documents in the time period of October 20 to November 8, 1995;

Further, declarant sayeth not.

I further declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements

and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the reissue application or of any reissue patent to issue thereon.

August 9, 2004
Date

Mrs. Patricia C.A. Satchell
Patricia C.A. Satchell

Residence: Tuskegee, Alabama

Citizenship: United States

Post Office Address: 1490 County Road 36, Tuskegee, Alabama 36083

EXHIBIT D

FILING RECEIPT



UNITED STATES DEPARTMENT OF COMMERCE
Patent and Trademark Office
ASSISTANT SECRETARY AND COMMISSIONER
OF PATENTS AND TRADEMARKS
Washington, D.C. 20231

APPLICATION NUMBER	FILING DATE	GRP ART UNIT	FIL FEE REC'D	ATTORNEY DOCKET NO.	DRWGS	TOT CL	IND CL
08/429,583	08/17/95	3101	\$365.00		2	1	1

JAMES A SATCHELL JR
1490 COUNTY ROAD 36
TUSKEGEE AL 36083

Receipt is acknowledged of this nonprovisional Patent Application. It will be considered in its order and you will be notified as to the results of the examination. Be sure to provide the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION when inquiring about this application. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please write to the Application Processing Division's Customer Correction Branch within 10 days of receipt. Please provide a copy of the Filing Receipt with the changes noted thereon.

Applicant(s)

JAMES A. SATCHELL JR., TUSKEGEE, AL.

FOREIGN FILING LICENSE GRANTED 11/01/95

* SMALL ENTITY *

TITLE
LASER-DISC MUSIC VIDEO DIGITAL DRINK MACHINE DOOR

PRELIMINARY CLASS: 221

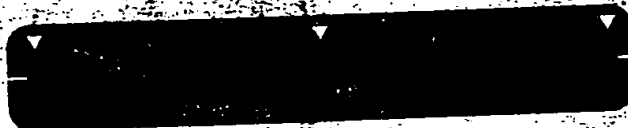


EXHIBIT E

11/8/95

APPLICATION #08/429,583 FILING DATE 08/17/95

Page #6

Laser-Disc Music Video Door (Drink Machine Door)
Claims

What I claim as my invention is: Something that will inter net/world wide wed, most types of vending machines, and the Soda-Machine Door into the entertainment/advertisement World. Soda-machine doors with still facades will surely step aside to customer entertainment; Live News Events, Pre-recorded Music Videos, Live auditions for T.V. Com-mercials. All possible by a purchase of a soda. I claim these features combined with my design on The Laser-disc Music Video Drink Machine Door, Door designed with;

- 1) Video Screen 2) Speakers for Stereo-sound
- 3) Satellite receiver antenna 4) Cameras
- 5) Video Record-Playback 6) Cassette gift-dispenser 7) Motion Detectors 8) Multi-Selection Panels 9) Adaptors for Internet/World Wide Wed reception to Door.

I James A. Datchell Jr., claim this combination Entertainment package design as a replacement door for existing soda machines. On this day 05/26/95.

I James A. Datchell Jr., after receiving, Foreign Filing License Granted 11/01/95, under 37 CFR 5.15(a) subsequently (make modifications, amendments, and supplements containing additional subject matter to, or divisions of,...). I claim this combination Entertainment/Advertisement package design as a replacement Door, for some, and a Primary Door for others, for these general public, entertaining, informational, Futuristic "On-Line" Billboard Vending Machine Doors. On this Day 11/8/95.

→ A CONTINUED ACT TO THE DRAWINGS
SIGNED 11/8/95, STAMPED BY USPTO IS
CHANGE OF "MUSIC VIDEO" TO "ON-LINE
VIDEOS, AFFIRMATIVE ACT AFTER 11/9/95—
3/19/95. FIRST LAWYER READ "ON-LINE VIDEOS."

EXHIBIT F

CLAIMS

PRO. SA. NOV. 5, 1995
CLAIM ATTEMPT

WHAT I CLAIM AS MY INVENTION IS:
A VENDING MACHINE THAT WILL INTERNET
WORLD WIDE ~~WED~~/AMERICAN ON LINE MOST
TYPES OF VENDING MACHINES, INTO
ENTERTAINMENT/ADVERTISEMENT WORLD.

1. A DISPENSER APPARATUS COMPRISING ADDP
a) MEANS TO ACCESS INTERNET ADVERTISEMENT. (WED P.
b) MEANS TO ACCESS LIVE NEWS EVENTS.
c) MEANS TO ACCESS WEBSITES
OF ANY BUSINESS THAT WOULD CREATE
COMPATIBLE DISK FOR PERSONALIZE BUSINESS
ACTIVITIES.

ORIGINAL CLAIM ATTEMPT, SATURDAY
FROM OLD PATENT (HELP ME)

- 2) A DISPENSER ACCORDING TO CLAIM
1 IN WHICH SAID MEANS FOR
ACCESS TO MUSICAL WEBSITES.

INFORMATIONAL TRANSMISSION RECEIVING, MEANS SAID
INPUT MEANS TO MONITORS, OVER TELEPHONE LINE, FROM WEBSITES

- 3) A DISPENSER WITH DIRECT LINKS TO
EXTERNAL SOURCES WITH SAID MEANS
FOR ACCESS TO ON-LINE SERVICES.
- 4) A DISPENSER WITH VISUAL RECORD/PLAY
MEANS, FOR CUSTOMER INTERACTION (SONG-A
(SONG-ALONG)

I) AN ~~ADDITIONAL~~ ^{OPTIONAL; ADDITIONAL?} FEATURE WHICH IS EMBODIED IN THE PRESENT INVENTION IS TO PROVIDE A CAMERA/MICROPHONE SYSTEM FOR AUDIO/VISUAL RECORDING

PRO SA TO PRO SA
SPEC. ATTEMPT

NOV. 5, 1995

AUDITIONAL STREET PERFORMANCES, AND TWO-WAY AUDIO/VISUAL ~~COMMUNICATION~~ COMMUNICATION
NOTE: FURTHER EXPLANATION ~~OF~~ SING-ALONG

A) CUSTOMERS AUDITIONAL STREET PERFORMANCES
AFTER A CUSTOMER ACCESS THE WEBSITE OF A DESIRED RECORDING ARTIST, AN OPTION OF AUDITIONING A SELECTION FROM THE SONGS AVAILABLE, IS CALLED UP. → YES OR NO RESPONSE → IF YES, INSERT CD ROM, WAIT FOR ON QUE 1-2-3 ~~RECORD~~ AUDITION STARTS ⇒ THE LYRICS AND MUSIC COMES ACROSS THE MONITOR, ~~AT~~ AT THIS TIME THE CUSTOMER STARTS SINGING THE SELECTION, WHILE THE VENDING MACHINE RECORDING SYSTEM DOWNLOADS THE PERFORMANCE AUDIO/VIDEO ONTO THE CD-ROM, MUSIC FROM WEBSITE ONTO CD-ROM & THROUGH STEREO SPEAKERS FOR CUSTOMER HEARING, LYRICS FROM WEBSITE ^{OF ART} TO MONITOR FOR CUSTOMER READING, WHILE SINGING, AFTER THE AUDITION IS COMPLETE

THE CD-ROM WHICH HAS CAPTURED AUDIO/VIDEO
AUDITION OF THE CUSTOMER STREET PERFORMANCE
THEN CAN ~~BE~~ FOR AN ADDITIONAL COST, ~~AND~~
BE E-MAILED AUDIO/VIDEO TO A COLA-COMPANY
WEBSITE FOR ~~TO~~ A CHANCE AT THEIR
STREET PERFORMANCE ~~OR~~ TO BE SELECTED FOR
A SERIES OF T.V. COMMERCIALS WHICH THE
COLA-COMPANY AIRS TO PROMOTE THE USE
OF THESE NEW VENDING MACHINES,

B TWO-WAY AUDIO/VISUAL COMMUNICATION
THE CUSTOMER WHO HAS NO MUSICAL INTEREST
NO INFORMATIONAL INTEREST, HAS AN OPTION
FEATURE WHICH IS EMBODIED IN THE
PRESENT INVENTION. "PLAYING THE MATCH
MAKING GAME", THIS FEATURE ALLOWS THE
CUSTOMER TO ~~"CRUISE-THE-MAKING-GAME"~~
VENDING MACHINES FINDS OTHER VENDING MACHINE-NETWORK
BEING USED AT THE SAME TIME, IT THEN
ALLOWS THE ~~TWO~~ TWO-VENDER-USERS, TO
COMMUNICATE IF DESIRABLE.) FIRST, THE
MACHINE ~~TELLS THE USER~~ ALLOW THE TWO
USERS TO ASK QUESTIONS ABOUT EACH OTHER
TYPOGRAPHICALLY, THEN ~~AND~~ AUDIABLY, IF
DESIRABLE, THEN VISUALLY IF DESIRABLE, ALL
FOR AN ADDITIONAL COST. ~~PUTTING~~ PUTTING VENDING
MACHINE-USER IN DIRECT COMMUNICATION WITH EACH OTHER

EXHIBIT G

The Coca-Cola Company

COCA-COLA PLAZA
ATLANTA, GEORGIA

LEGAL DIVISION

6 YEAR OLD ARGUMENT
SEPT. 11, 1995 - MAR. 27, 2001

November 9, 1995

ADDRESS REPLY TO
P. O. DRAWER 1734
ATLANTA, GA 30301
404 576-2121
OUR REFERENCE NO.

PENDING PATENT
CLAIMS "TWICE REVIEWED"

Mr. James A. Satchell, Jr.
1490 County Rd. 36
Tuskegee, AL 36083

Dear Mr. Satchell:

Thank you for your conditions of submission Agreement dated September 18, 1995 concerning your idea for a Laser-Disc Music Video Digital Drink Machine Door (patent application 08/429,583 filed August 17, 1995).

In view of similar activities already underway in this area and the availability of technology in this area from several sources, we have concluded that we would not be in a position to integrate your idea with our other business activities.

You might be interested to know we have a similar type of multi-media interactive drink vending machine on display at The World of Coca-Cola.

We appreciate your interest in The Coca-Cola Company, Mr. Satchell, and your taking the time to contact us concerning this matter.

Sincerely,

Kathy K. Driscoll

Kathy K. Driscoll
Patent Administrator

EXHIBIT H

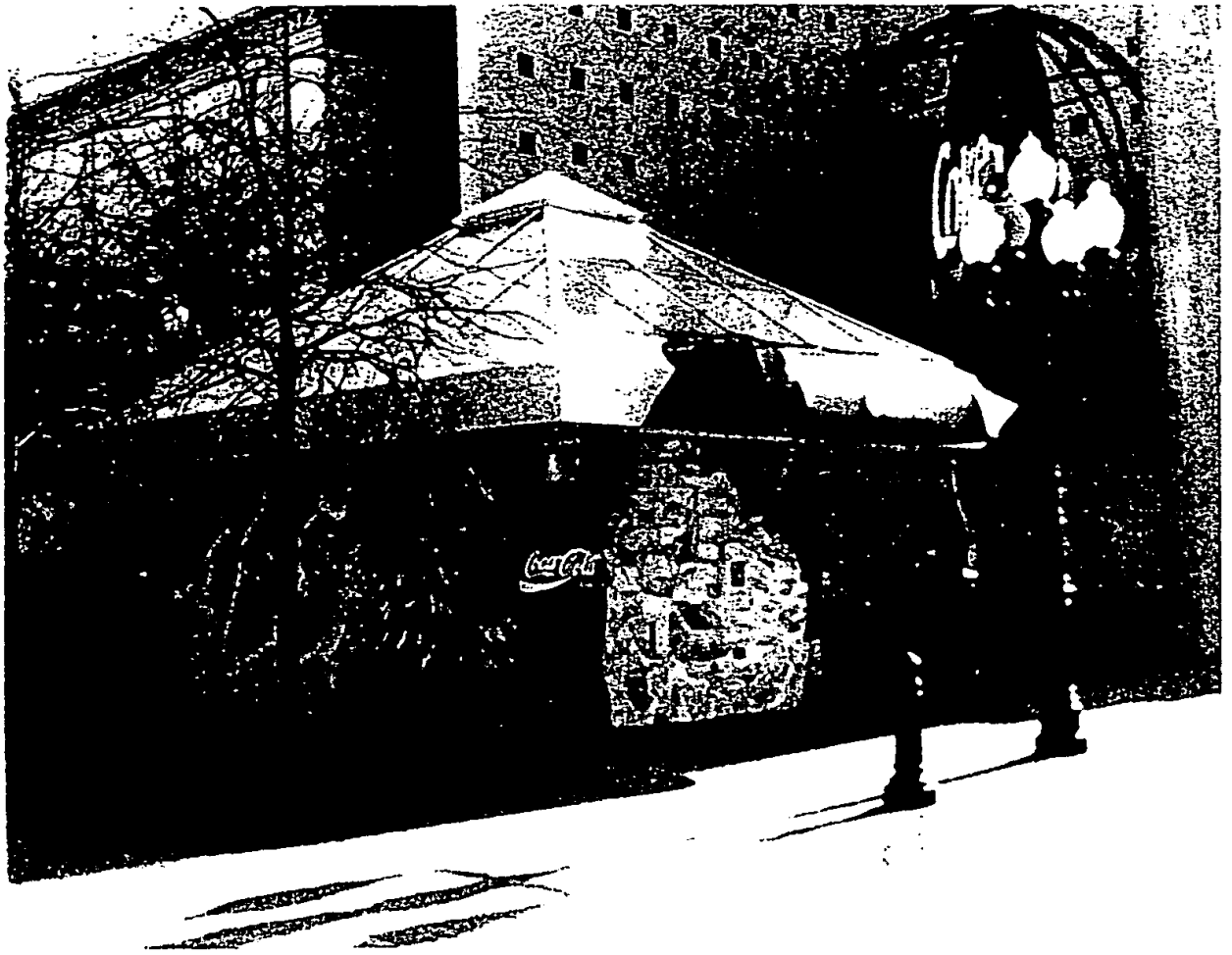


EXHIBIT I

MIX *plus* CENTRAL

Music &
Audio
Resources
For The
Central U.S.
& Canada

1995 Edition
\$15.00



JAMES A SACHELL
1490 COUNTY RD 36
TUSKEGEE AL 36083-3408

360
J015

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LONG PRATRIE MN



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(510) 443-1037

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Remote Recording MIDI Production

Tape Duplication Audio-For-Video/Film

Digital Editing/CD Prep In-House Music Services

TEXAS

CONTINUED FROM PREVIOUS PAGE

HOME TRAX AUDIO PRODUCTIONS (915) 676-2539. Contact: Steven L. Sheppard.

HOUSEHOLD MUSIC RECORDING (512) 335-7337. Contact: Gregory Dean Ellenwood.

ICI UNIVERSITY (214) 751-1111; FAX: (214) 714-8185. Contact: Milt Anderson.

JUNGLE STUDIOS (806) 763-0706; FAX: (806) 763-1987. Contact: Jim Mason.

AOL.COM - OLD CLIENT SOFTWARE OF 95' WITHOUT W.W.W.

ARTICLE; FEB. 1996

NOTE P. 120

MOBILE AUDIO RECORDING



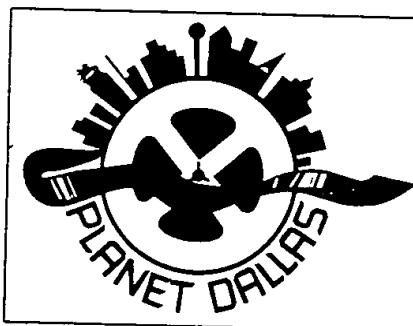
2610 Freewood Dr., Ste. 16, Dallas, TX 75220; (214) 352-2446; (800) 939-MARS; FAX: (214) 352-6001. Contact: Steve Lowney.

EARL MUSICK (817) 838-9585; FAX: (817) 831-3465. Contact: Earl Musick.

THE MUSIK FAKTORY (409) 982-7121. Contact: Lois Badeaux.

ON VIDEO INC. (214) 406-9292; (800) 922-2402.

PCG STUDIOS (903) 832-1363. Contact: Ron Hansche.



PLANET DALLAS RECORDING STUDIOS
Dallas, TX

PLANET DALLAS RECORDING STUDIOS



PO Box 191447, Dallas, TX 75219-8447; (214) 521-2216; FAX: (214) 528-1299. Contact: Oebb Rooney, general manager. Engineers: Rick Rooney, Amado Garasco, Adam Zimmermann. Equipment: mixing consoles: MCI/Sony 528B w/Otari DiskMix automation, Mackie 1604. Monitors: custom Lakeside Associates w/TAD components, Yamaha NS-10, Tannoy PBM-8, Auratone nearfields. Audio recorders: custom MCI JH-24 24-track transformerless, Sony JH-110C 2-track w/Dolby SR, Tascam 42 2-track, Fostex RD-8 ADATs, (2) Panasonic SV-3500, (2) Panasonic SV-3700, (2) Sony 2300, KABA cassette duplication. Digital audio workstations: 3-track Digidesign Pro Tools w/Sound Designer and DINR noise reduction. Synchronizers: Digidesign SMPTE slave driver, MIDIMan Syncman Pro. Other major equipment: (2) vintage custom Neve 1084 mic pre EQ, AKG ADR-68K stereo reverb, (2) Night Technologies EQ3, (2) Summit DCL 200 compressor, (2) Summit EQ, Summit tube leveling amp, API mic preamp, (10) API EQ, (2) Eventide H3000 Ultra-Harmonizer, (2) UREI LA-4, (2) UREI 1176, B.A.S.E., (4) Brookes-Siren de-esser compressor, (8) dbx 160 compressor, (2) Yamaha SPX90

(1) Yamaha SPX900, (2) Yamaha REV7, (2) Lexicon PC icon Prime Time DDL, Master-Room XL-305 reverb, Gen coupler-phone patch, Marantz 610 compact disc recorder, AKG, Microtech Gefell, Sennheiser and CAD mic. Description & Other Services: Planet Dallas Studios is a ten years of recording excellence. Located in the private area just minutes from downtown Dallas, hotels and DFW International Airport. Planet Dallas Studios are contained in a classic prairie house surrounded by 200-year-old oak trees atmosphere and clean work environment with all the amenities, including a full kitchen. Specializing in music production Planet Dallas consists of: studio A, a full-service 24-track studio signed by Carl Yancher of Lakeside Associates, featuring a MCI/Sony console w/Otari DiskMix automation and vintage mic preamp EQs; studio B, a digital editing suite, featuring a Digidesign 8-track digital editing system w/line lines into 8. Other services include: professional 24-bit mastering, compact manufacturing, custom one-off CD-R replication and cassette duplication. Clients include: WEA, RCA, Sony, American, Reprise, Dragon Street, Getten, Priority, Profile, Jive, Sub 900-Fl. Jesus, Tripping Daisy, The Nixons, Filter, Reverend Heat, Fu-Schnickens, XTC, Nemesis, Domino, Jon Hassell, Face, Gone By Dawn, The Blue Johnnies, GSD&M, Trac, AAFES, Wolke Advertising, Coopers & Lybrand, O'Connor & Levenson Levenson Hill, Mary Kay, Rummell Hoyt, Texaco Broadcast Network, New Home Full Gospel Ministries, C Music Marketing Concepts.

PRO AUDIO (512) 358-9638. Contact: William Ford.

THE PRODUCTION BLOCK



TX 78702-3810; (512) 472-8971; Contact: Lainie Frasier. Engineers: Joe Bivell, Steve Metz, Patterson Barre digital studios.

REELWORKS RECORDING STUDIO (214) 328-3912. Contact: Jimmy Lowrance.

1 699-3994. Contact: Tony Young.

D'S RECORDING

1312 Tulane, Houston, TX 77008; (713) 868-5660. Contact: Romano. Engineers: Rock Romano, Dave Sahm, Ham W. (MIDI). Dimensions: 900 sq. ft.

ROTATE SOUND PRODUCTIONS (512) 258-3529. Contact: Spoonits.

SCEPTRE PRODUCTIONS (512) 462-2209. Contact: Mark Ha

SOUND FACTORY RECORDING STUDIO (214) 394-4515. Contact: Steve Garrett.

SOUNDTECH (210) 657-5668; FAX: (210) 654-0363. Contact: Fresco.

SOUNDTRACK STUDIO (210) 224-4107. Contact: Mike Hettle

STUDIO SOUTHWEST SOUND (214) 226-1789; FAX: (214) 2857. Contact: Sharon McGuire.

SULPHUR SPRINGS SOUND (903) 885-8583; FAX: (903) 885-Contact: Joey Baker.

TEXAS SUNRISE RECORDING STUDIO (210) 381-0077; FAX: 318-1752. Contact: Mike Lopez.

TRINITY RECORDING STUDIO (512) 880-9268; FAX: (512) 7719. Contact: Jim Wilken.

TRUE COLOURS RECORDING STUDIO (817) 467-2280. Contact: Barry Dickey.

TWIST TUNES (512) 328-1836. Contact: Michael Donegani.

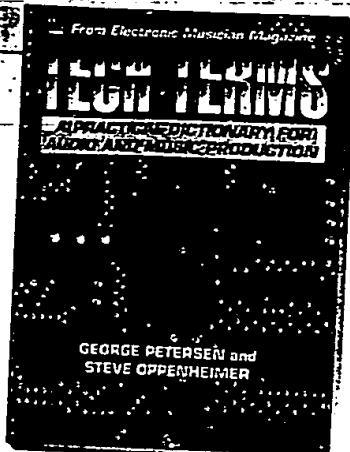
UNITED AUDIO (210) 614-5678; FAX: (210) 616-0299. Contact: Robert Bruce.

VOICES (512) 243-2263. Contact: George Aleman, sound engineer/owner.

WAVEZONE (713) 370-5008; FAX: (713) 251-0489. Contact: Blanton.

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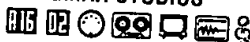
CONTINUED FROM PREVIOUS PAGE

GREENE STREET RECORDING



112 Greene St., New York, NY 10012; (212) 226-4278; FAX: (212) 431-4156. Contact: David Harrington. Engineers: Rod Hui, Jamey Staub, Josh Wertheimer, Chris Shaw. Equipment: API Legacy—all discrete—32x24 w/Neve Flying Faders, Studer A800 MkIII multitrack recorder, Studer A80 VU 1/2" 2-track/4-track, John Meyer 833 studio monitors, Lexicon 224X w/LARC, EMT 140S plate, Teletronix LA-2A limiter, (3) UREI 1176 limiter, Pultec EQP-1, Pultec EQP-1S3, Pultec Mavec mic pre, (2) Lang PEQ-2 EQ, Ursa Major Space Station, Lexicon PCM60, (2) ADL 1000 tube limiters, (2) UREI LA-3A limiters, (2) Lexicon PCM42, dbx 166 comp/gate, AKG 8H-20 spring reverb, Eventide H910 Harmonizer, 3BE 302 stereo processor, Yamaha REV7, Eventide Phaser, Eventide Omnipressor, Kepex IVGain-Brain rack, Brookes-Siren DPR402, Ursa Major StarGate, Pultec HLF-3 filter, Ensoniq DP4, (3) UREI 1176 limiters, Tube-Tech LCA-2A, Eventide H910, Altec 1612A limiter, Bel BD80 delay, GML 8200 EQ, Pioneer PD5700 CD player, Panasonic SV-3500 DAT, Amek APC1000 w/Total Recall/Massenaourg-automated console w/sync reset, Studer A820 24-track, Studer A827 24-track, Studer A820 2-track, (2) Lynx synchronizers, Dolby 363 2-ch. SR/A rack, Tascam 122 MkII cassette, Panasonic SV-3700 DAT, Quested 412 Soft Dome monitors, (2) Yamaha NS-10M, Tannoy PBM-6.5, KRK7000, Pulsion Internal Machine 90 w/20 sec. stereo sampling, Lexicon 480L, AMS RMX 16, Eventide H3000, Lexicon PCM70, Ursa Major 126, EMT 140 plate, Lexicon PCM60, Yamaha REV7, AKG spring reverb, (2) TC 2290 dynamic delay/sampler, TC 1210 spatial expander, (2) Lexicon PCM42, Yamaha D1500, Yamaha SPX90, Eventide H910, DigiTech DSP 128, (2) Tube-Tech CL-1A comp., (2) Tube-Tech EQP-1 EQ, GML 3200 EQ, (5) UREI 1176 limiters, Neve 2254/E stereo comp./lim., ADL 1000 limiter, 3SS DPR-402 comp./de-esser, dbx 166, dbx 160 comp., (2) JBL 7110 comp., Kepex II 8-ch. gate rack, BBE 802, Macintosh FX 600+ MB, dual-monitor color system with simultaneous waveform/cut & paste editing, Panasonic SV-3700 DAT, 4-track Deck program, Peavey/AMR phase reference monitors, Pro I/O analog-to-digital interface w/Apogee filters, Studer A80 RC 1/2"-1/4", Tascam 122 cassette decks.

GREGMAR STUDIOS



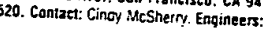
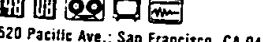
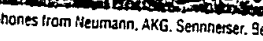
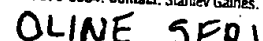
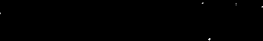
30 Victor Ave., Eatontown, NJ 07724; (908) 542-5116; FAX: (908) 389-8019. Contact: Marcelo Oliveira.

IN YOUR EAR



1300 W. Main St., Richmond, VA 23220; (804) 359-3937; FAX: (804) 358-2256. Contact: Kathy Allisbrook.

MEDIA PRODUCTIONS



Lehner, Jeff Kilment, Scott Strain. Dimensions: studio A: studio B: 18'x28'.

SAUNA STUDIO



4514 215th Pl., Bayside, NY 11361-3445; (718) 229-4884; fax: Mike Rosenman. Engineers: Mike Rosenman.

SOUTHWYNDE STUDIOS



PO Box 958; Wilmington, NC 28402-0958; (910) 251-9963; (910) 251-9447. Contact: Randy Drew.

THE STUDIOS AT LINDEN OAKS



1708 Linden Oaks; Rochester, NY 14625-2802; (716) 264-1785; (716) 264-1786. Contact: Dave Lippa. Engineers: Jeff Gi Shane Boisard. Dimensions: studio A: 37'x31'x14'; contr 27'x22'x11.5'. Equipment: SSL 4064G+ w/Ultimation, Total P (2) Studer 827, Ampex ATR-102, Otari DTR-900 time code DA channels of Dolby SR noise reduction, Apoosie A/D converters, tionworks/Audio Kinetics synchronizers, Mastering Lab 10" r tors, SOTA softlit monitors, Neve 33609 compressors, UREI i compressors, dbx 902, Innovonics 201 limiter, Focusrite ISA i GML 3200, Sontec MEP 250EX, API 312, API 550, API 550A, 5608, Lang PEQ-2, Teletronix LA-2A, Tube-Tech PE-1C, (8) i 1073 mic pre/EQ, AMS RMX 16, AMS 15-80S, Lexicon 480L, i con PCM70, Lexicon 300, Eventide H3000 SE, TC Electronic 22 EMT 250, Steinway grand, Neumann U47, TLM 170, KM84, KM AKG 414 ULS, 451, 4608, D-112, C-12, Sony 800-G, B&K 40 Sony D2, 1" Beta video sources, Simon Systems headphone s tem, 302 digital phone patch, Description & Other Services: Studios At Linden Oaks features an audio facility equipped with SSL 4064G+ w/Ultimation, 48 tracks of Studer 827 and Dolby noise reduction for all tracks. The relaxed environment and gri acoustics, plus a separate producer's refuge and pool lounge, cr vide the amenities one would expect from a world-class facility. 3000-sq.-ft. film stage w/hard cyc. and 2 complete digital video cc suites w/nonlinear online and offline editing are also available "The Studios."

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WVWU-FM



WVU Mountainair; Morgantown, WV 26506; (304) 293-3329; FAX: (304) 293-7363. Contact: Alex Gavula.

Recommended Reading

1995 RECORDING INDUSTRY SOURCEBOOK, Cardinal Business Media ©1995, 456 pp. (Spiral) 1951A) \$74.95

1995 MIX MASTER DIRECTORY of the Professional Audio Industry, Cardinal Business Media ©1995, 208 pp. (Bound) 995A) \$24.95

GUERRILLA MARKETING: Secrets for Making Big Profits From Your Small Business, Jay Conrad Levinson ©1993, 327 pp. (P) 3325B) \$11.95

101 WAYS TO MAKE MONEY RIGHT NOW IN THE MUSIC BUSINESS, Bob Baker ©1995, 280 pp. (P) 3460B) \$14.95

THE BILLBOARD GUIDE TO MUSIC PUBLICITY, Jim Pettigrew ©1989, 196 pp. (P) 3009B) \$14.95

ACCESS, Brabec & Brabec ©1989, 196 pp. (P) 3009B) \$14.95

BOOK & CAREER GUIDE, 5th Ed., David ©1990, 280 pp. (P) 3460B) \$14.95

THIS BUSINESS OF MUSIC, 6th Ed., Shemel & Krasikovsky ©1990, 280 pp. (P) 3460B) \$14.95

THE STUDIO BUSINESS BOOK, Revised Ed., Jim Mandell ©1994, 288 pp. (P) 1319A) \$34.95

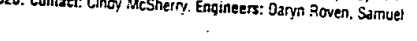
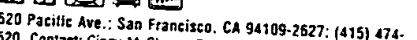
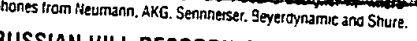
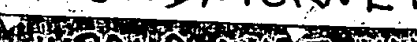
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573 Dutch Valley Rd., Atlanta, GA 30324; (404) 876-2337; FAX: (404) 876-8664. Contact: Stanley Gaines. Engineers: Tim Harriman

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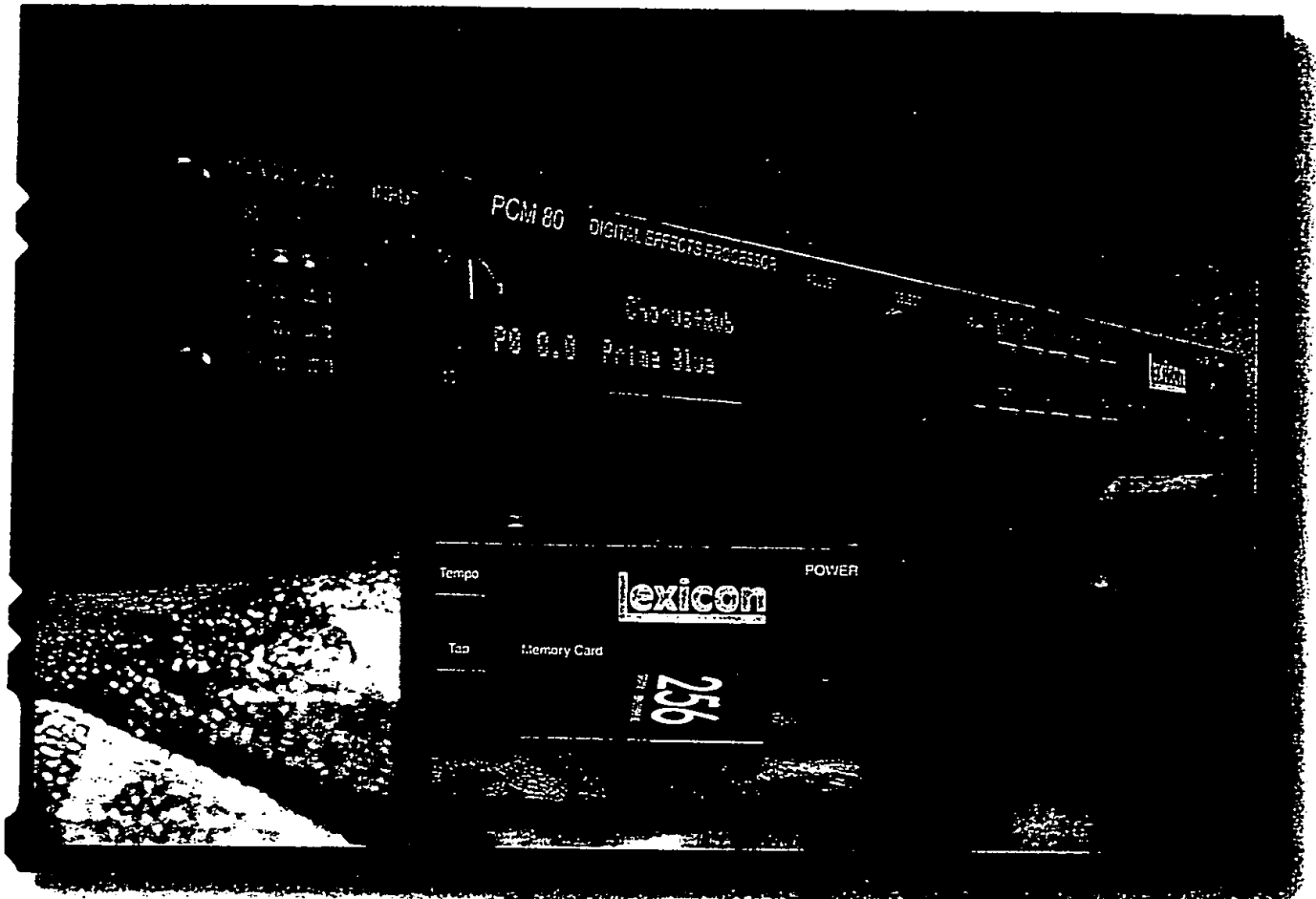


1520 Pacific Ave., San Francisco, CA 94109-2627; (415) 474-4520. Contact: Cindy McSherry. Engineers: Daryn Roven, Samuel

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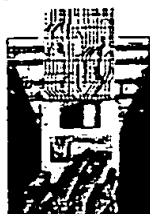
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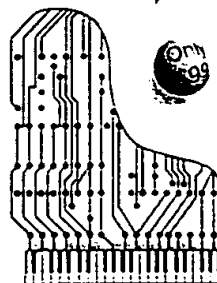
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EXHIBIT J

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PROOF OF EMPLOYMENT

SOC SEC NO.		EMPLOYEE NAME				CHECK #	DEPT. COST EMP		BASE RATE		PER.	PAY ENDING
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								YTD VAC.		YTD DUES	YTD MISC.	
GROSS		FED TAX		FICA		STATE TAX		LOCAL TAX		UNEMP	ADJ TO NET	NET
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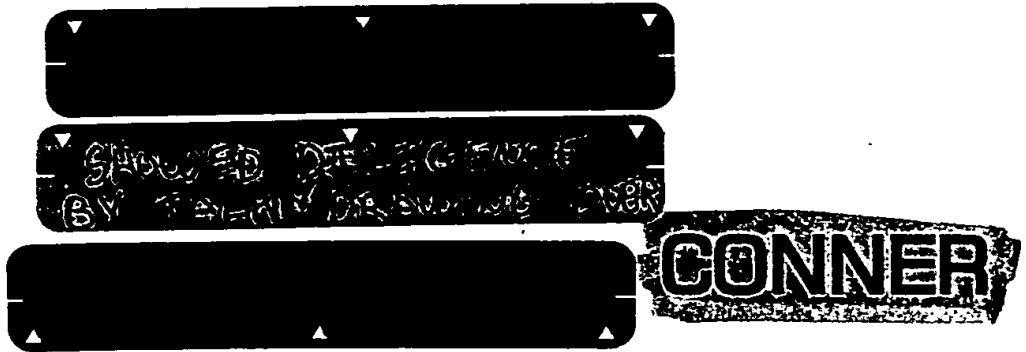
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1.50	275.00	.00	.00	.00	.00						275.00	
								YTD VAC.		YTD DUES	YTD MISC.	
00	.00	.00	.00	.00	.00							
GROSS		FED TAX		FICA		STATE TAX		LOCAL TAX		UNEMP	ADJ TO NET	NET
275.00		.00		21.94		5.71		.00		.00	.00	248.00
YTD GROSS		YTD FED		YTD FICA		YTD STATE		YTD LOCAL		YTD UNEMP	YTD ADJ NET	YTD NET
.500.00		4.31		245.30		106.70		.00		.00	.00	4,062.00

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Denise Shields
DENISE SHIELDS, PAYROLL ADMINISTRATOR

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EXHIBIT L

Microsoft vs Quicken **EASY MONEY** The Secret Tax Break

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Online Superguide

Battle of the titans:
Online services vs. the Web

Does your online service deliver? The four giants—America Online, CompuServe, Microsoft Network, and Prodigy—are all vying to be your single online solution. But which one offers the best e-mail, news, and other features? And, more important, do you even need a commercial service, or should you get a direct connection to the Web?

To find out how all the online services stack up, we compared the big four, as well as *PC Computing's* ultimate Web connection consisting of Netscape's Navigator 2.0 and a local Internet service provider. We sought the best overall solution—in usability and features—across five core business needs: e-mail, downloading files, chat, message boards, and content. Our exhaustive lab testing reached two major conclusions: You don't lose any significant features by going straight to the Web, but the

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d more - we give you

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we make an obvious



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requirements for Net 2.0 for Win-
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are, 4MB RAM and 5MB hard disk sp-
Web site at <http://www.netcom.com>

Online Services: E-mail and File Libraries

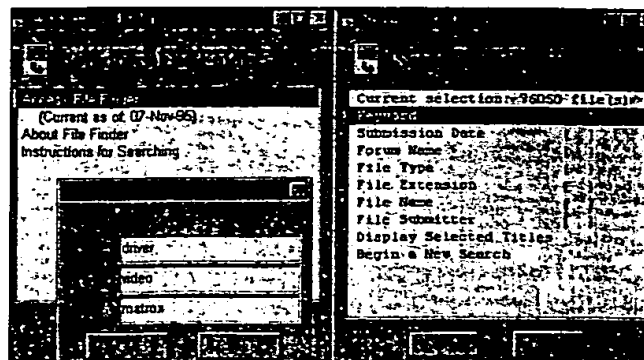
well-defined structure of the commercial services makes it easier to accomplish basic tasks such as finding files.

To help you choose the right service for your needs, we've compiled five tables that show how to perform specific tasks on the different services, and highlight the unique aspects of each (starting on page 126). Finally, for those of you eager to dive into the Web, we present the ultimate Web setup on page 136.

E-mail The promise of electronic communication has motivated millions of people to subscribe to online services and get e-mail addresses. After an early lead in e-mail, CompuServe has fallen behind rival America Online. Now America Online can process Multipurpose Internet Mail Extensions (MIME) file enclosures to and from the Internet, and has removed the 32K message limit that once hampered it, although it supports only one enclosure per message. In contrast, CompuServe still doesn't support true enclosures, even for mail sent within the service. While CompuServe's WinCIM 2.0 lets you attach binary files to messages, this is merely a shortcut for creating two messages. Microsoft Network, on the other hand, encodes binary attachments on the fly and lets you attach multiple files.

America Online, CompuServe, and Prodigy use integrated mail modules, and Microsoft Network uses a separate program for e-mail (Microsoft's Exchange client). Prodigy and CompuServe don't let you multitask when you read or send mail (at least via WinCIM 2.x), but America Online and Microsoft Network do. Because Exchange is built for local-area network mail retrieval, Microsoft Network's mail system has extensive filtering options, routing rules, and—like CompuServe—personal folders, which help you perform tasks such as automatically forwarding messages and organizing mail. Microsoft Network e-mail also supports rich text format.

As long as your Internet service provider has a Post Office Protocol server, Netscape's Navigator 2.0 supports MIME e-mail, but it takes the concept beyond



Fast Finder: WinCIM 2.0 brings together CompuServe's multiple file finders, letting you quickly track down shareware files scattered among PC-related forums.

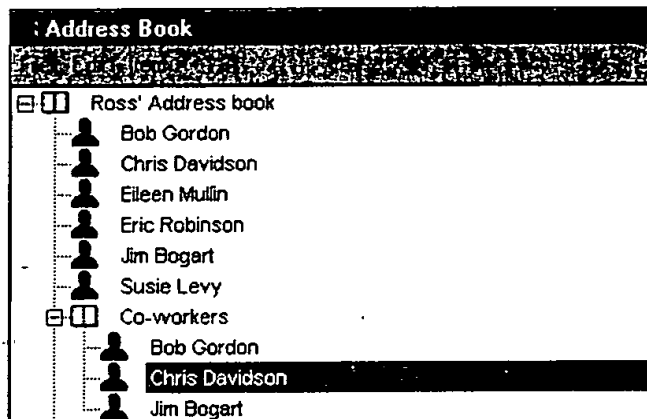
mere file enclosures. It can display multimedia content as well as HTML documents within its mail window. Navigator's address book also has the smoothest interface, letting you easily move users among groups. The overall e-mail winner, however, is Microsoft Network, thanks to its sophisticated rules functions.

Downloading Files A big draw of online services has traditionally been their vast libraries of freeware and shareware. CompuServe boasts more than 200,000 files across its PC and Windows forums. WinCIM 2.0 consolidates the service's multiple file finders, thereby letting you search for files on up to three keywords. America Online's file finder lets you pinpoint file categories, but isn't as precise as CompuServe when it comes to searching by date. Both services also let you view JPEG and GIF images as they are downloaded.

Microsoft Network and Prodigy have weaker file libraries. Although Prodigy went into service before America Online, it did not add file downloading until much later. To make up for lost time, Prodigy has added ready-made file libraries from sources such as Ziff-Davis Interactive and Bits and Bytes, but the whole collection is a small fraction of what you'll find on CompuServe or America Online. Microsoft Network's file libraries are still too new to assess; you'll find few files available for download.

All four services let you queue files for batch downloading, although CompuServe is limited to queuing files in the same forum, or general content area. With America Online and Microsoft Network, you can smoothly pause and resume downloads, even those you started earlier.

Navigator gives you access to millions of files scattered across thousands of FTP sites, but *scattered* is the operative word. If you know how to use the Internet's Archie utility, you can scan FTP sites for specific words in filenames or short descriptions, but this method isn't as accurate or useful as keyword searches. Some Web sites now include keyword databases for Internet files, such as the Virtual Software Library (<http://www.cnet.com/Resources/Download/index.html>). But they are not as complete or easy to find as the online service's built-in functions. Files transferred via FTP are also often encoded, and require the extra



Black Book: The e-mail component of Netscape's Navigator Gold 2.0 makes it easy to create group addresses and move addresses among multiple groups.

Online Services: Chat and Message Boards

step of decoding to get into Windows-usable form.

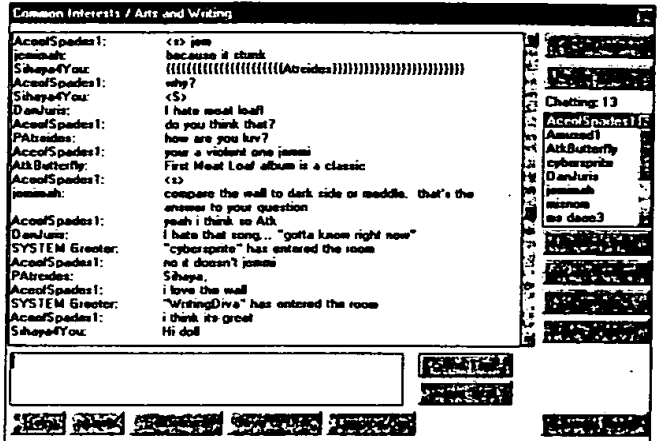
Overall, CompuServe's file library is the easiest to access and the most complete.

Chat Hold conversations with other members all over the country or all over the world in chat rooms using real-time, one-to-one or one-to-many communication. The services all present a similar interface: You type in a box at the bottom of a scrolling window that contains others' comments, and then hit the Return key to add your comments to the discussion. All services offer multiple public rooms on topics ranging from singles to stocks, and all but Microsoft Network have private rooms where virtually anything goes. Prodigy and America Online have strict standards for their public rooms; in fact, Prodigy's client includes an Alert button that you can use to quickly send a complaint to a sysop if someone makes an offensive or inappropriate comment. Only Microsoft Network lets you participate in two or more chats simultaneously.

Once a pioneer, CompuServe's CB Simulator now shows its age. Its dated metaphor lets you tune into chat channels, but there's no way to see a list of all the topics. When you select a band, it drops you into a tracking window that displays numbered channels

and buttons like Tune and Monitor. It works, but CB Simulator is long overdue for an update.

With the addition of Netscape's optional Chat, which supports the Internet Relay Chat (IRC) standard, Navigator offers the best chat functions. Netscape Chat includes all the chat features found on online

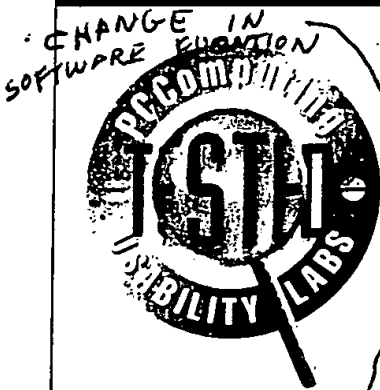


Group Gab: In addition to basic functions, Prodigy's Chat offers an Instant Message feature that lets you send a quick, private note to only one member in the current forum.

NOTE: R&D

REPORT CARD

ONLINE SERVICE **PRODUCTIVITY** IN KEY AREAS



ONLINE SERVICES VS. THE WEB

The sudden popularity of the World Wide Web has galvanized online services to expand the features and improve the usability of their client software. We investigated how well each service—plus a Netscape's Navigator—World Wide Web combination—handles sending e-mail, downloading files, participating in chat sessions, and reading and posting forum messages. We also compared the overall content of each. In general, we found it a bit easier to move around with online services than Navigator 2.0 on the Web, but the Web's content is far richer.

ONLINE SERVICE + (NET. NAV./WWW.) ⇒ NEW ISP BUSINESS MODEL

E-mail

America Online	CompuServe	Microsoft Network	Prodigy	Navigator/Web
✓		✓		✓

Put It in Writing: While America Online, Microsoft Network, and Netscape's Navigator handle Internet e-mail attachments with aplomb, Microsoft Network shines, thanks to easy multimedia e-mail within the service. CompuServe doesn't support real attachments. Prodigy's and CompuServe's separate e-mail packages make it hard to send messages with content from the service.

Downloading Files

America Online	CompuServe	Microsoft Network	Prodigy	Navigator/Web
✓	✓			

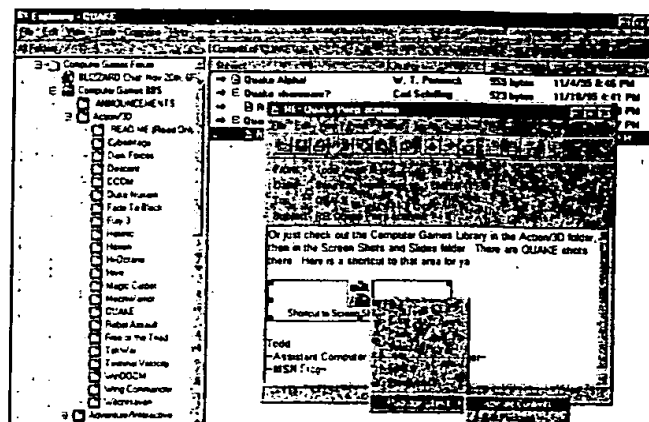
Search and Deliver on Demand: Downloading files is easy on all four commercial services, but only America Online and CompuServe have well-developed file libraries and excellent search tools. Prodigy's file libraries are small, and Microsoft Network's are still growing. Navigator offers access to the largest collection via FTP, but no easy way to track down specific files.

services, and adds support for HTML and URLs, so all the attendees in your chat can simultaneously view a Web page for which you provide the address.

Message Boards CompuServe and Microsoft Network are the best hosts for long-running debates. Both support message threading, which makes it easy to track replies, although Microsoft Network doesn't inform you if replies have been made to your postings, as CompuServe does. CompuServe provides the best message-search tools, including by subject and by author. However, Microsoft Network's message interface, which parallels Windows 95's Explorer list views, is more up-to-date and complete. Microsoft Network is also the only service that allows graphics, sounds, and other files to be placed in messages via OLE.

Navigator currently relies on Usenet for its main message boards, though it can be used with any message server featuring a Web front end, such as Attachmate's OpenMind. Navigator supports threading and presents a flexible, three-paneled interface similar to that of Netscape's Collabra Share groupware package and Lotus's Notes 4.0. Usenet threads tend to break up, though, and the signal-to-noise ratio in the discussion groups is generally higher than in the online services.

America Online offers a limited form of threading on



Tracking Threads: Microsoft Network's message boards support an informative view for following conversation threads, similar to that in Windows 95's Explorer.

some boards, but it's not as complete as CompuServe's or Microsoft Network's threading. Plus, America Online lacks a topic-search function, although you can find all new messages in a folder posted since a given date. No service offers full-text searching, standard in LAN packages like Lotus's Notes and Netscape's Collabra Share. CompuServe and Prodigy let you read messages offline without charging you, but CompuServe's tools are more comprehensive. Unfortunately, they

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ONLINE SERVICES WITH- OUT A WEB-BROWSER

Chat

America Online	CompuServe	Microsoft Network	Prodigy	Navigator/ Web
✓		✓	✓	✓

Private Powwow or Public Forum? Microsoft Network is the only service that lets you participate in two chat rooms simultaneously, but Prodigy and America Online offer private rooms, which Microsoft Network lacks. Navigator's optional Chat add-in supports all the features of online services, plus the ability to send graphics during a chat. CompuServe's CB Simulator needs updating.

Message Boards

America Online	CompuServe	Microsoft Network	Prodigy	Navigator/ Web
	✓	✓		✓

Who Said So—And When? CompuServe, Microsoft Network, and Navigator let you track replies via threads. Navigator provides the best interface, but CompuServe has better searching options and content. America Online does not offer threading in every area. Microsoft Network supports OLE-enabled messages, while Prodigy's archaic system has poor Windows support.

Content

America Online	CompuServe	Microsoft Network	Prodigy	Navigator/ Web
✓	✓			✓

News You Can Use: Of the online services, America Online and Microsoft Network do the best job of packaging their information, but Microsoft Network is still playing catch-up. CompuServe offers several unique features but isn't very flashy. Much of Prodigy's content looks very dated. With Netscape's Navigator, you have direct access to the enormously rich World Wide Web.

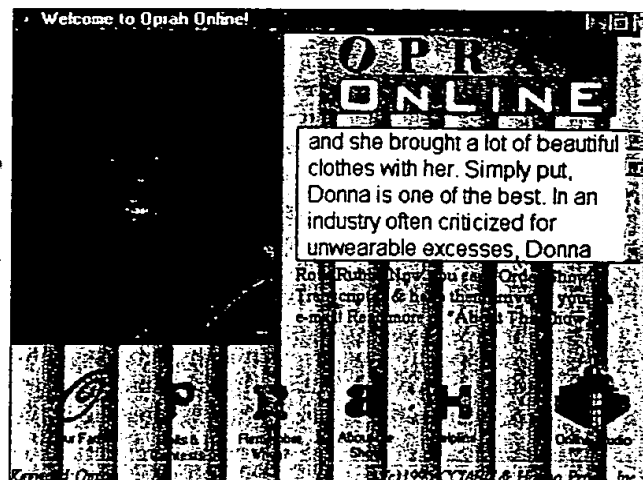
Online Services: Unique Content

aren't a part of WinCIM 2.0—you'll need to use an additional offline reader application such as CompuServe's OzCIS, WmNav, CISNav, or TapCIS.

The interfaces in Prodigy's message boards are still stuck in the early '80s. While Microsoft Network lets you do sophisticated tasks such as drag and drop files and OLE objects into messages, Prodigy doesn't even understand double-clicking to select a word. The only realistic way to post messages is to import the text from an external source.

Content Subscribers user to judge online services' content in terms of online forums, but now brand names have become more important. All commercial online services have newswires, including AP, UPI, and Reuters. Only America Online hosts the *New York Times*, however, and only CompuServe features Computer Library and IQuest databases for retrieving information on companies and products. NBC, which was courted away from America Online, is one of Microsoft Network's most popular features. Prodigy's new Web areas correspond to those of other services, but many of its links lie outside the service and are reachable from any online venue. And while CompuServe has added some jazzy services, such as online versions of *Rolling Stone* and *People Magazine*, the service's content strength remains in its user-sponsored forums. Not surprisingly, the six-month-old Microsoft Network lags in content behind its older rivals.

The content available to users of Netscape's Navigator 2.0 is, of course, the entire World Wide Web, which ranges from the relevant to the irreverent, including sites for virtually everything you'll find on





All Dressed Up: America Online includes colorful backgrounds and graphics, but all of this window dressing takes longer to download.

an online service and more. The Web continues to attract new content faster than any online service, and Navigator continues to be the browser for which most sites are designed. If content matters, it's the way to go.

Signing Off If you're looking for more structured content and clearly defined functions, commercial online services and their accompanying client applications offer the easiest path online. The more ambitious, however, will find that the Navigator-Internet combination offers all the features of the online services and more—you just have to work a bit harder to get what you're after. And as more companies work to address the Web's limitations, an Internet connection may soon be all you need.

Comparing Online Services

Online Service	Monthly Rates	Connection Types	Internet Access	E-mail Attachments	Offline Options	Unique Features	Verdict
 America Online (800) 827-6364 Reader Service No. 815	5-hour plan: \$9.95 \$2.95/add'l hour	28.8Kbps modem or T1	FTP, Usenet, WWW	Yes	Offline message boards	Amateur Hour	**** Good content, Net connectivity and intuitive interface.
 Netscape Navigator (800) 638-7483 Reader Service No. 816	Var. depending on ISP Internet service provider	24.0Kbps modem, ISDN or T1	FTP, Usenet, WWW	Yes	Offline message boards	World Wide Web	**** Help and online applications expand feature set.
CompuServe (800) 848-8199 Reader Service No. 817	5-hour plan: \$9.95 add'l hour: 20-hour plan: \$24.95 \$1.95/add'l hour	28.8Kbps modem or T1	FTP, Usenet, Usenet Web	No	E-mail message boards	White Pages, WordsAway	*** Strong message boards and technical content.
Microsoft Network (800) 386-5550 Reader Service No. 818	5-hour plan: \$4.95 add'l hour: 20-hour plan: \$19.95 \$2.00/add'l hour	28.8Kbps modem or T1	Usenet Web	Yes	E-mail message boards	OLE, ShortCuts	*** OLE support and a nice interface, but little content.
Prodigy (800) 776-3449 Reader Service No. 819	5-hour plan: \$9.95 add'l hour: 30-hour plan: \$23.95 \$2.95/add'l hour	14.4Kbps or 28.8Kbps modem	Usenet Web	No	E-mail message boards	Web-based content	** A service in flux, but shows signs of promise.

***** Excellent

**** Good

*** Acceptable

** Poor

* Unacceptable

Instant Access

It's evolving. It's unorganized. Still, surfing the Web with Netscape's Navigator 2.0, when paired with endless pricing and access options, provides the best online experience for the buck. Navigator has pulled ahead of online services with features such as support for downloadable online applications via Sun Microsystems' Java, and a budding industry of vendors is working to address the Web's deficiencies. For those who feel the organization and support of an online service is worth the price, we recommend America Online as the best choice for most people. For technical users and download fans, CompuServe's forums still hold an edge.

With most online services priced comparably, these days (although some offer volume-usage plans), content and presentation play as strong a role as usability. America Online and Microsoft Network have begun to look more like CD-ROMs than the BBSs of yore. In contrast, even WinCIM 2.0 preserves CompuServe's conservative, spartan look, while Prodigy's designers should have new options open to them with the company's recent licensing of Netscape's Navigator. Be

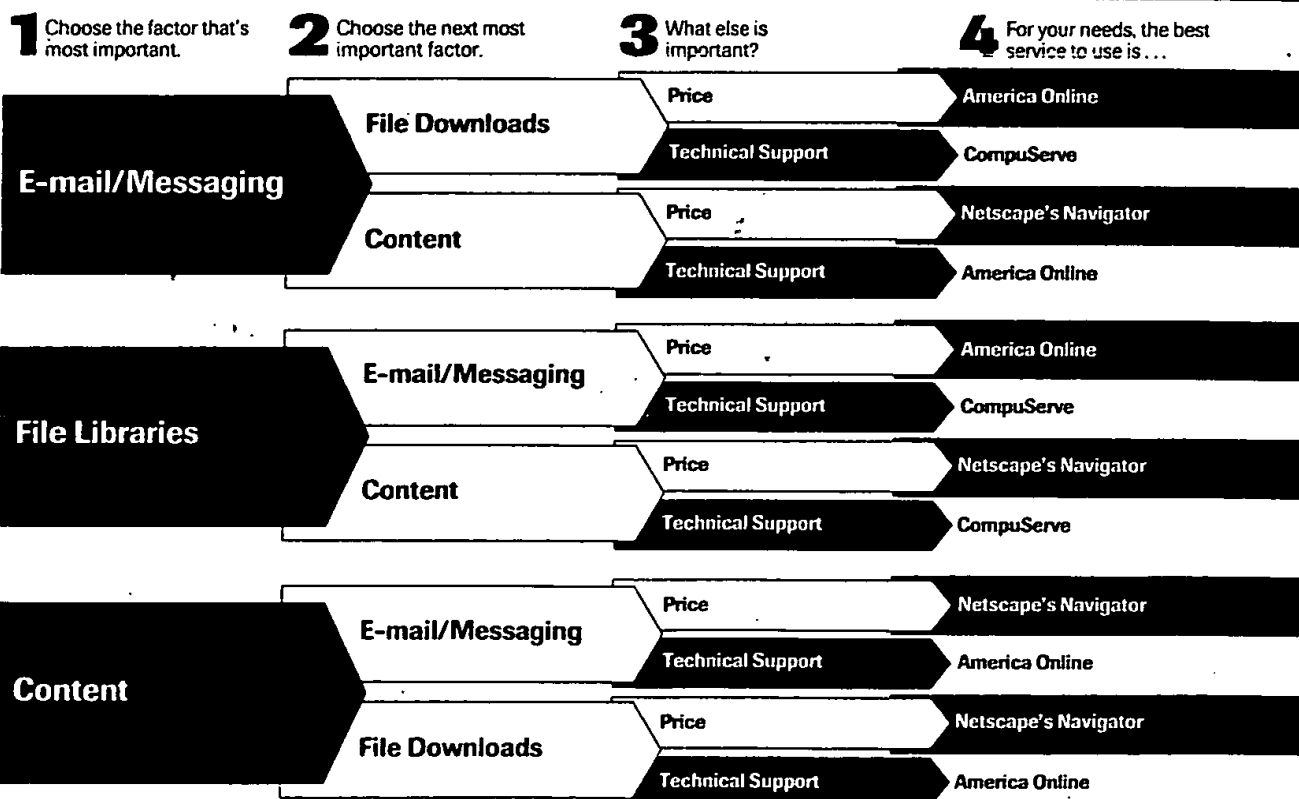
aware, however, that eye candy can fatten your online bill. While America Online takes you into a free area for serious attacks of new art downloads, the wait can be maddening. In contrast, Microsoft Network brings in graphics gradually, freeing you to move on in a very Web-like fashion.

If you're looking for technical support, stick with an online service. America Online has live online tech support 24 hours a day, and both Prodigy and CompuServe offer 24-hour phone support. There are also major navigation differences: Microsoft Network's keyword system is still ill-defined, while Prodigy's can flag down close matches even if you don't get the initial keyword right. America Online can decipher URLs in its keyword-entry dialog and launch its Web browser. Ultimately, though, if the momentum for the Web continues at its present pace, online services may soon become glorified on-ramps to the Internet.

ROSS SCOTT RUBIN has written and edited several books about online services.

DECISION MAKER

CHOOSE THE RIGHT ONLINE SERVICE FOR YOUR NEEDS

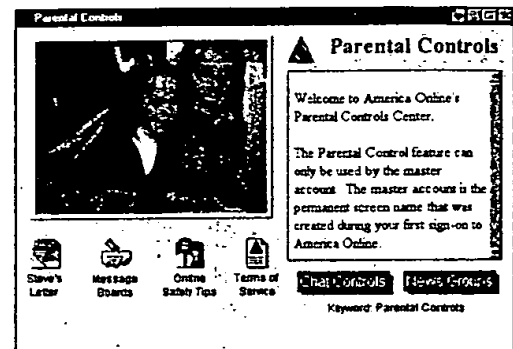


America Online

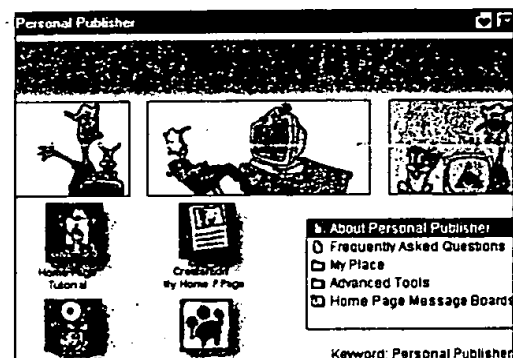
Claiming the largest U.S. membership of any online service (3 million and counting), America Online provides high-speed access to its many online areas and forums, all of which are graphically appealing. Unfortunately, the biggest frustration is waiting for graphics to download every time you enter a new area.

Basic Tasks	How They're Done	What's Unique
Add name to address book.	• Choose Edit Address Book from Mail menu and click on Add. • Type name and press Enter. • Click on Done.	• Procedure for creating addresses and primary screen names.
Queue a file for downloading.	• Enter file name. • Click on Download.	• Can download waiting files from any computer.
Read replies to a message.	• Open a message. • Click on Reply. • Read message.	• Can read messages from any computer.
Save a chat transcript.	• Choose Window. • Click on File. • Click on Save. • Click on Done.	• Can save chat transcripts to any computer.
Look up entry in encyclopedia.	• Keyword: WWW.ENCYCLOPEDIA. • Click on Search. • Enter keyword. • Click on Done.	• Can look up any word in the encyclopedia.

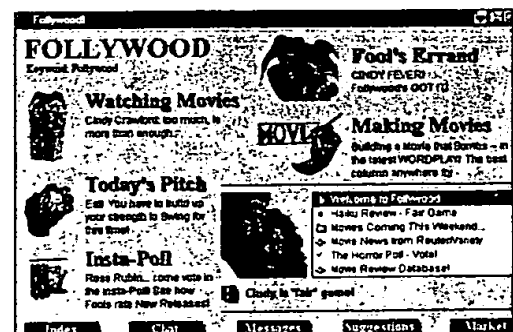
Other Tasks	How They're Done	What's Unique
Set up a Web page.	• Keyword: WWW.MESSAGES. • Click on Create/Modify Page. • Click on Create. • Enter name and password. • Click on Done.	• Can create a home page.
View online animation.	• Keyword: PEEK. • Look at animation and click on Done.	• Simple animations stand out without increasing download time significantly.
Take a swing at "Today's Pitch" trivia game.	• Keyword: HOLLYWOOD. • Click on Today's Pitch. • Read the question and click on Take a Swing. • Enter a number and click on Swing. • Click on Done.	• Hollywood provides a humorous look at the movie industry.
Block Instant Messages.	• Keyword: PARENTAL CONTROLS. • Click on Chat Controls. • Click on Block Instant Messages.	• Primary account holder can restrict access to chat and newsgroups.
Search New York Times classifieds.	• Keyword: TIMES CLASSIFIEDS. • Click on Help Wanted. • Click on Jobs letter category. • Enter checkboxes and keyword. • Click on Search.	• Free access to the largest newspaper classified section in the country.



Family Values: Parental Controls let the primary screen-name holder allow or restrict privileges for other screen names.



Moving Pictures: The home-page building area contains a bit of animation in which the dog (top right) briefly raises his sunglasses.



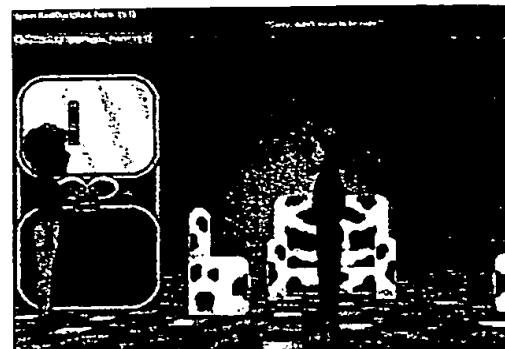
Trivial Pursuit: Follywood keeps users in the action by asking them trivia questions and rewarding winners with free online time.

CompuServe

The oldest online service, CompuServe has prospered compared to rivals GEnie and Delphi. It remains the only major service accessible with a standard character-based terminal emulator. WinCIM 2.0 hides most of this heritage, but CompuServe is still at home with more technical, professional users.

Basic Tasks	How They're Done	What's Unique
Add name to address book.	<ul style="list-style-type: none"> • Choose Address Book from Mail menu and click on Add. • Type name and press Tab. • Enter e-mail ID and optional service. • Press Enter. 	<ul style="list-style-type: none"> • Direct support for relay, NetLink and Netware Mail Server.
Queue a file for downloading.	<ul style="list-style-type: none"> • Enter file location and click on Queue. • Type name of file. • Choose Remote Mailbox from Mail menu. • Click on Queue. 	<ul style="list-style-type: none"> • Files can be queued for downloading from the host.
Read replies to a message.	<ul style="list-style-type: none"> • Open listing of messages. • Double-click on message. • Click on Mail menu. 	
Save a chat transcript.	<ul style="list-style-type: none"> • Go to chat. • Double-click on channel name. • Choose Record Chat from menu. • Select file. 	<ul style="list-style-type: none"> • CompuServe has your chat transcripts online and can transfer them to a PC hard disk.
Look up entry in encyclopedia.	<ul style="list-style-type: none"> • Go to ENCYCLOPEDIA. • Double-click on Search. • Enter word and type number. 	<ul style="list-style-type: none"> • Walks you step-by-step through the process of finding CompuServe's encyclopedia.

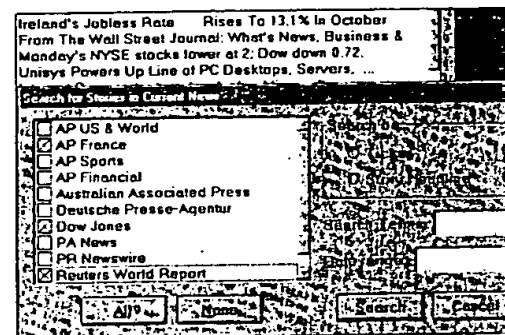
Other Tasks	How They're Done	What's Unique
Look up a phone number of someone across the country.	<ul style="list-style-type: none"> • Go to PHONE. • Double-click on Access Phone. • Choose all options for searching. • Enter criteria and view results. 	<ul style="list-style-type: none"> • Lets you search by address, geographical region, and other criteria.
Search articles in IQuest database.	<ul style="list-style-type: none"> • Go to IQuest. • Double-click on Access IQuest. • Enter category and subcategory numbers and type article numbers. • Select full-text articles. 	<ul style="list-style-type: none"> • Contains a comprehensive collection of more than 7 million articles in over 450 publications for research (Costa Extra).
Use WorldsAway to communicate with other members.	<ul style="list-style-type: none"> • Go to AWAY. • Click on Enter WorldsAway. • Choose an avatar. • Click on OK. 	<ul style="list-style-type: none"> • Provides an animated environment for chatting.
Log into a remote site.	<ul style="list-style-type: none"> • Go to TELNET. • Double-click on Access a Specific Site. • Type the site domain. 	<ul style="list-style-type: none"> • CompuServe is the only one of the four major online subscription services to support Telnet.
Review articles on computer topics.	<ul style="list-style-type: none"> • Go to COMPU. • Double-click on Access Computer Database Plus (CIM). • Double-click on Quick Search. 	<ul style="list-style-type: none"> • Online Computer Library lets you search an online database of computer industry publications.



Nouveau Chat: In WorldsAway, you navigate and communicate with other CompuServe members via an onscreen avatar.



Online Graphics: CompuServe now offers its subscribers easy-to-save GIF images and other high-resolution graphics.



Fit to Print: CompuServe's Executive News is the most mature search option for subscribers who want to scan the newswires.

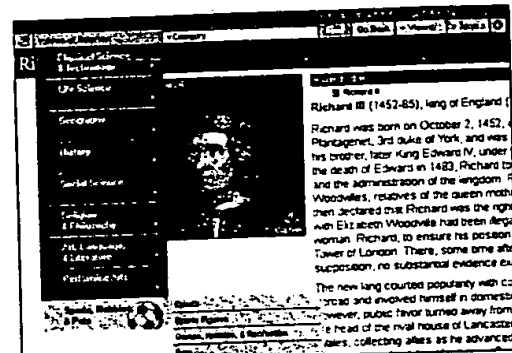
Microsoft Network

Offered with every copy of Windows 95, Microsoft Network has taken some of the finest elements of CompuServe and America Online and fine-tuned them for its host environment. As you'd expect from a young service, Microsoft Network's content is still meager, but the limited selection is offered in attractive packages.

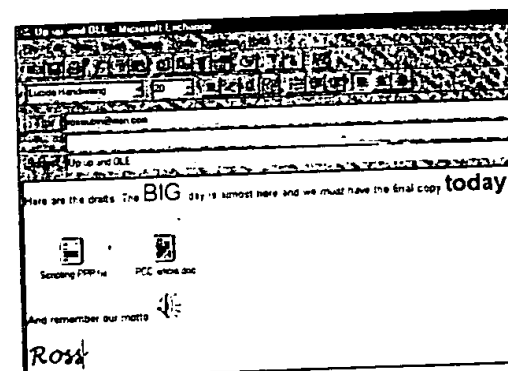
Basic Tasks	How They're Done	What's Unique
Add name to address book.	<ul style="list-style-type: none"> Open Microsoft Exchange. Choose Address Book from the File menu. Choose New Entry from the File menu. Enter name and address. 	Supports Windows 95's Exchange Universal in and out box for sending and receiving messages.
Queue a file for downloading.	<ul style="list-style-type: none"> Edit FILE TRANSFER STATUS. Choose Download from the File menu. Select a file to download. Click on the Download button. 	Customizable download speeds and the ability to pause and resume downloads.
Read replies to a message.	<ul style="list-style-type: none"> Enter a bulletin board. Double-click on a subject line. Click on the first reply in the list of conversation topics. 	Integrated with Microsoft's Internet Explorer and the same interface as the CD-ROM.
Save a chat transcript.	<ul style="list-style-type: none"> Go to Chat. Choose Save Transcript from the File menu. 	Can save transcripts of multiple conversations in multiple files.
Look up entry in encyclopedia.	<ul style="list-style-type: none"> Go to ENCARA and click on Find. Type the entry and hit Return. 	Online version of Encarta has same interface as CD-ROM.

Other Tasks

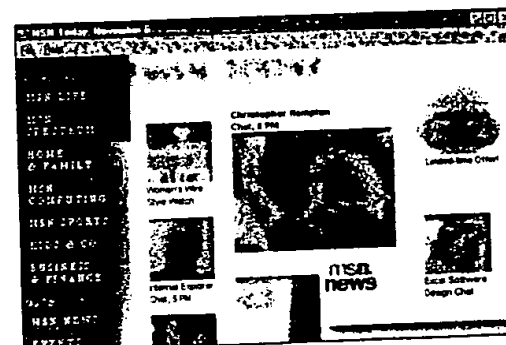
Use Shortcuts.	<ul style="list-style-type: none"> Choose Create Shortcut from the File menu or drag icon onto desktop. 	Provides convenient access to features even when you're logged on.
Read Usenet newsgroups.	<ul style="list-style-type: none"> Go to CS 2.1. Double-click on CS 2.1 Internet Newsgroups. Double-click on subject folder. Read conversation. 	Newsgroups are distributed among forums and available through the same interface.
Access Microsoft's Bookshelf.	<ul style="list-style-type: none"> Go to MSBOOKS. Double-click on Step 3: Run Bookshelf into Editor. Click on Find tab. Type a term and click on Find. 	Provides multimedia access to a variety of regularly updated references.
Embed animation and graphics in e-mail messages.	<ul style="list-style-type: none"> In any message composition window, drag an item from the desktop to the window. 	Allows a unique mix of multimedia content within message boards and e-mail.
See progressive graphics.	<ul style="list-style-type: none"> Go to MSN TODAY. Click on an image. 	The richness of the art doesn't slow you down.



One World: Look familiar? The online version of Microsoft's Encarta encyclopedia shares the interface of its CD-ROM cousin.



Big Type: Say goodbye to Courier. Microsoft Network supports rich text format and drag-and-drop OLE in e-mail and BBSs.



Come to Life: Large graphics come in gradually and don't make you wait to continue moving through the service.

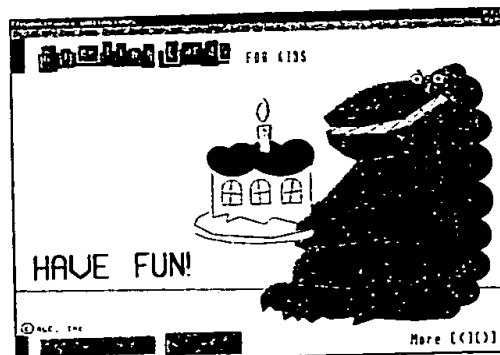
Prodigy

Once far behind in the online-service features race, Prodigy has moved earnestly to include a modern mail system, easy Web integration, and offline functions. Better still, it's lost the quarter-screen ads that were its trademark. The new Prodigy promises to be excellent, but it's still going through growing pains.

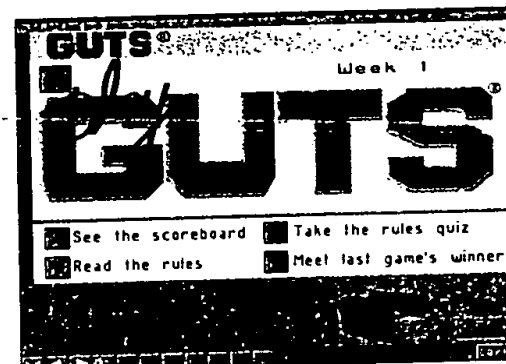
Basic Tasks	How They're Done	What's Unique
Add name to address book.	Jump to Mail Click on Address Book icon Click on Add New Address Enter name and address Click on OK	Prodigy offers a special one-click "Add New Address" button that reads "Add New Address" and "Add New Address" and "Add New Address"
Queue a file for downloading.	Jump to Mail Click on Queue icon Click on Queue icon Click on Queue icon	
Read replies to a message.	Jump to Mail Click on Mail icon Click on Mail icon Click on Mail icon	
Save a chat transcript.	Jump to Chat Click on Chat icon Click on Chat icon Click on Chat icon	
Look up entry in encyclopedia.	Jump to Encyclopedia Click on Encyclopedia icon Click on Encyclopedia icon Click on Encyclopedia icon	

Other Tasks

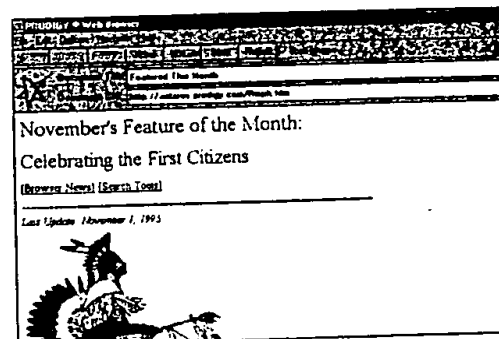
Play Mad Maze.	Jump to Games Click on Games icon Click on Games icon Click on Games icon	Graphics-oriented game is the only major online service to offer a "Mad Maze" game.
Read newsgroups.	Jump to News Click on News icon Click on News icon Click on News icon	Prodigy is only one of the many online services that offer a "News" service. It's the only one that offers a "News" service.
Play Guts.	Jump to Games Click on Games icon Click on Games icon Click on Games icon	Guts is a progressive trivia game that is available in multiple languages.
Send greetings.	Jump to Mail Click on Mail icon Click on Mail icon Click on Mail icon	Let's users send animated electronic greeting cards.
Record a macro.	Jump to Tools Click on Tools icon Click on Tools icon Click on Tools icon	Macros are an effective way to navigate the older parts of the service.



Greetings: In addition to basic text, Prodigy lets you deliver premade but customizable slide-show greeting cards with graphics.



Quiz: Guts is an aptly named trivia game available on Prodigy—if you miss just one question, your score is wiped out.



Web Connection: In an effort to distinguish itself, Prodigy is creating proprietary Web content accessible only to Prodigy members.

Navigate the Web

Using Netscape's Navigator 2.0 with a direct connection to the World Wide Web isn't as easy as logging on to one of the four major online services, but it offers a much richer, more cost-effective online experience. Plus, you can piece together your own Web setup by adding new viewer applications—something you can't do on commercial services. If you want to add 3-D support, for example, simply download a 3-D viewer and install it as a helper application.

But from this embarrassment of riches, what is the ideal setup for navigating the Net? *PC Computing* searched long and hard for all the right pieces. Taken together, these will help you get the most from the Web.

For the browser, start with Netscape's \$79.95 Navigator Gold 2.0. The new version improves newsgroup reading, introduces frames for better page layout, and supports Sun's Java language. Java

lets you send programs—not just text and graphics—over the Web. Navigator 2.0 also offers an applications program interface (API) for online apps that can launch from the Navigator window, and they both provide e-mail.

Navigator Gold adds the ability to edit HTML documents from within Navigator's main window. If your service provider supports this feature, you can publish Web pages and post revisions to your pages with a single click on Navigator's toolbar.

Netscape's \$54.95 Power Pack provides one-stop shopping for souping up Navigator. It includes:

- **SmartMarks, Chat, and file viewers.** Tired of constantly returning to pages to check for the elusive New icons? SmartMarks scans pages and notifies you of changes to your favorite sites, turning you into the ultimate Web potato.

- **Chat.** Yak it up with fellow Net denizens. Netscape's Chat provides Windows access to the Internet Relay Chat, a real-time, multiroom environment similar to the online services' popular chat features.

- **File viewers.** The Power Pack also has viewers for several popular Web file formats, including Adobe's Acrobat (for WYSIWYG, high-resolution documents), Apple's QuickTime (for video files), and Progressive Networks' RealAudio Player (for real-time delivery of audio files). Xing Technology's StreamWorks can also deliver near-real-time audio via the Web, and video clips as well.

The Web moves into the third dimension with the Virtual Reality Modeling Language (VRML). Instead of scrolling up and down a page, you can maneuver around the halls of a museum and fly by landmarks. Several VRML browsers should be available by press time, but one of the first to support Netscape is Paper Software's WebFX.

While not as navigable as true 3-D technologies like VRML, Apple's QuickTime VR provides a level of realism on 386-based machines that's difficult to achieve on Silicon Graphics workstations. You can look around a room, look up and down, pick up objects, and spin them. QuickTime VR viewing will probably be built into a future version of the QuickTime movie player for Windows and the Mac.

PICKS PC COMPUTING'S DREAM WEB SETUP

Here are the essential materials you'll need to build your Ultimate Web Surfboard. You can find helper applications and information links at *PC Computing's* Web site (<http://www.zd.com/~pccomp/>).

- **Browser:** Netscape's Navigator Gold 2.0
<http://home.netscape.com/>
- **Web Tracking:** First Floor Software's SmartMarks
http://home.netscape.com/comprod/smartmarks_install.html
- **Chat:** Netscape's Chat
<http://home.netscape.com/comprod/chat.html>
- **Document Viewer:** Adobe's Acrobat Reader
<http://www.adobe.com/Software/Acrobat/>
- **Panoramic Scenes:** Apple's QuickTime VR
<http://qtv.quicktime.apple.com/>
- **Real-time Audio:** Progressive Networks' RealAudio Player
<http://www.realaudio.com/>
- **Real-time Audio and Video:** Xing Technology's StreamWorks
<http://www.xingtech.com/>
- **VRML:** Paper Software's WebFX
<http://www.paperinc.com/>
- **Phone:** Quarterdeck's WebPhone
<http://www.qdeck.com/>
- **Alternative Phone:** VocalTec's Internet Phone
<http://www.vocaltec.com/>
- **Videoconferencing:** Connectix's VideoPhone
<http://www.connectix.com/>
- **Access Control:** SurfWatch Software's SurfWatch
<http://www.surfwatch.com/>

Quarterdeck's WebPhone integrates with the company's Mosaic Web browser to let two people talk via the Internet as they would on a telephone. It, too, faces competition—from VocalTec's Internet Phone and Third Planet Publishing's DigiPhone (www.planeteers.com/index.htm).

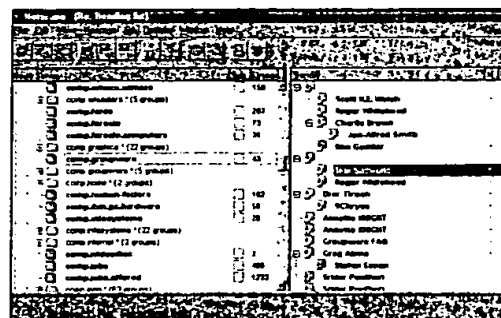
While not directly related to the Web, Connectix's \$100 QuickCam has filled a unique niche for

Web users who want to post a quick photo or video. Now Connectix's VideoPhone lets up to six users videoconference using inexpensive cameras (but relatively costly connections). White Pine Software's CU-SeeMe product can also create videoconferences over the Internet in conjunction with video cameras.

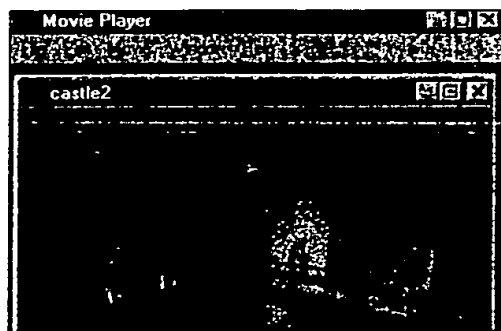
Finally, for blocking your children's access to adult content, check out SurfWatch Software's SurfWatch.

Netscape Navigator

Basic Tasks	How They're Done	What's Unique
Add name to address book.	Click on Address book (top of the Window menu).	URLs are mail-enabled.
Queue a file for downloading.	Click on the file in the list of files to be downloaded.	Navigator 2.0 can download multiple simultaneous files.
Read replies to a message.	Click on the message in the list of messages.	It can follow up on the thread of a message.
Save a chat transcript.	Click on the transcript in the list of transcripts.	It can save chat transcripts.
Look up entry in encyclopedia.	Click on the entry in the list of entries.	It can look up entries in the encyclopedia.
Other Tasks		
Look at the Star Trek Voyager with VRML.	Configure Navigator to launch the VRML viewer when a VRML file is downloaded. Choose Open Location and enter the URL of the VRML file.	It can launch the VRML viewer when a VRML file is downloaded.
Watch a video with StreamWorks live video streaming player.	Configure Navigator to launch the StreamWorks live video streaming player when a StreamWorks live video streaming file is downloaded. Choose Open Location and enter the URL of the StreamWorks live video streaming file.	It can launch the StreamWorks live video streaming player when a StreamWorks live video streaming file is downloaded.
Listen to sports, news, and commentary from the ABC network via RealAudio audio player.	Configure Navigator to launch the RealAudio audio player when a RealAudio file is downloaded. Visit ABC News site (www.realaudio.com/content/abc.htm). Click on a link to download a RealAudio file.	RealAudio 2.0 allows for real-time broadcasts over the Web.
View a live multimedia newspaper with Java.	Open Location www2.nando.net/nt/nando.cgi?java .	The Nando Times uses Java to present information engagingly.



Message Boards: While its searching controls are weak, Navigator puts a great interface on Usenet newsgroups.



Reality Check: The photorealistic QuickTime VR offers more detail but less freedom of movement than graphics-based VRML.



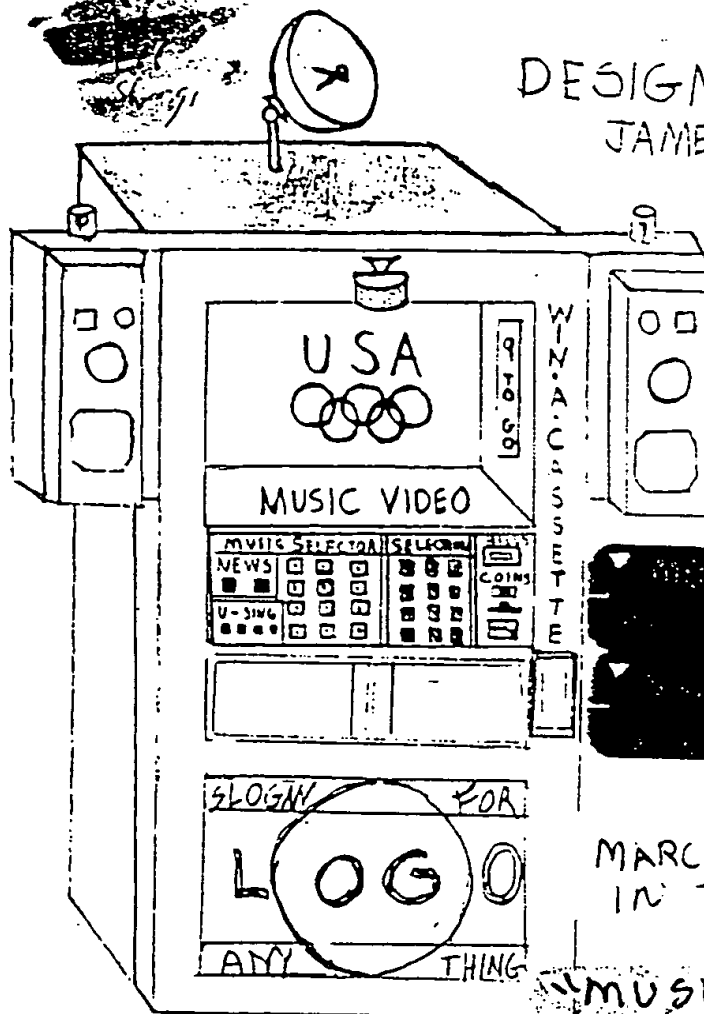
Web Apps: Using a simple Java applet, c|net brings some interactivity to its site with scrolling headlines at the top of the page.

EXHIBIT M

LASER-DISC MUSIC VIDEO DIGITAL
(DRINK MACHINE DOOR)

PAGE 1

DESIGNER:
JAMES A. SATCHEL JR.



MARCH 5, 1996 CHANGE
IN THE WORDS

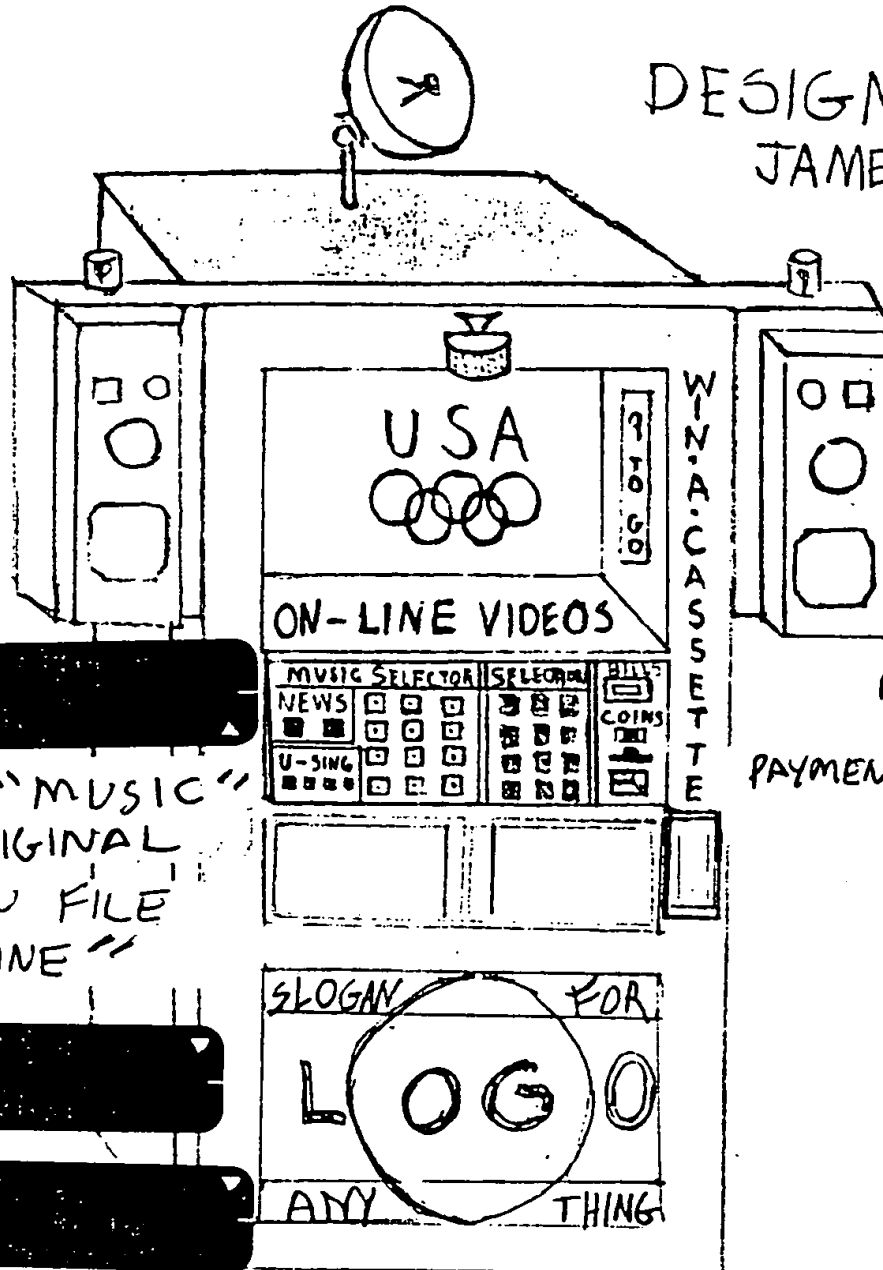
"MUSIC VIDEO" TO
"ONLINE VIDEOS"

ISOMETRIC DRAWING

LASER-DISC / MUSIC VIDEO DIGITAL
(DRINK MACHINE DOOR)

PAGE
1

DESIGNER:-
JAMES A. SATCHEL



SAME
SPEAKER

MARCH
96
PAYMENT MADE TO

I CHANGED "MUSIC"
ON THE ORIGINAL
DRAWING ON FILE
TO "ON-LINE"

ISOMETRIC DRAWING

ORIGINAL RECORD SUBMITTED TO USPTO
LATER MAIL TO ATTORNEY
GARRET V. DAVIS